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## ERRATA.

*Journal of Agriculture.*

Vol. XXVI., No. 3, September, 1949.

Page 267 Second last paragraph, line 1—delete " (attached) " after Table 1.

Page 268 Under " EXPERIMENTAL "—after " In addition the following grass species were present " for " festuea, bromus, lolium, and some cynodon-dactylon " read " Festuea, Bromus, Lolium, and some Cynodon-dactylon."

Page 271 Line 1, for " (*c*) Two cwts. per acre of superphosphate gave 15 cwts. more than on " read " (c) two cwts. per acre of superphosphate gave 15 cwts. more than no."

Paragraph (f), last two lines—delete " and graph 1 "

Table 4, YIELDS OF HERBAGE—for " Symbols " read " Series," and for " Super Applns. Applied." read " Cwts. superphosphate."

Page 272 Table 5. BOTANICAL COMPOSITION—for " Symbols " read " Series " for " Super Applns. Applied " read " Cwts. superphosphate," delete " Composition," insert " Air Dry " over " Clover " in heading of second last column, delete " Tons/acre " in third last column and insert " %."

Page 273 Table 6. Heading—delete " OF ASH," for " Symbols " read " Series," delete " Super Applns. Applied " and insert under Treatments, " Cwts. superphosphate."

Page 275 Table 7—for " Treatment " read " Series."

Page 276 Table 8—for " Symbols " read " Series " and for " Yields Yearly " read " Average Annual Yield."

Table 9—Insert " BOTANICAL " before " COMPOSITION OF HERBAGE " and for " Symbols " read " Series."

Table 10—Delete " OF ASH " from heading and for " Symbols " read " Series."

Page 277 Table 11—for " Treatment " read " Series."

Delete fourth paragraph " Graph 2 illustrates the tendency for yields to progressively decline . . . . . applications."

JOURNAL

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Vol. 26. (Second Series) DECEMBER, 1949. No. 4

# OFFICIAL AUSTRALIAN PURE BRED HERD RECORDING SCHEME

By M. CULLITY, Superintendent of Dairying.

A LIVENING interest in the Recording of pure bred herds has been evident since the end of the war. This is a heartening trend providing the new interest is a sign of a determination to use the data from testing as a means of improving the quality of the herds.

In previous reports reference was made to the tendency to use testing as a means of publicising the merits of a few individual cows and to take advantage of this publicity to sell bulls from mediocre animals.

This is a Herd Recording Scheme and it is most desirable that it should be used for Herd Improvement.

Some of the increase in the number of cows recorded for the past two years is due to a determined effort to ensure that the rules be complied with in respect to submission of all cows and that applications for exemption be strictly in accordance with the conditions.

It is expected that an alteration in procedure will be possible next year whereby all cows irrespective of age and condition will be tested, but fees will not be charged in certain cases to be defined. The performances of these cows will not appear in the published results as they will include only sick cows, etc.

The results for the year are summarised in the following remarks and tables.

*Pure Bred Herd Recording.*

During the year 672 cows from 47 herds completed test compared with 676 and 46 the previous year.

Owing to deaths, sickness and other reasons 74 cows were withdrawn before before completing 150 days under test and are not included in any of the averages.

The remaining 598 cows averaged 6,022 lb. of milk, Average Test 4.79% and 288.98 lb. of butterfat which is 8.26 lb. of butterfat less than the average for the previous year.

The average production of cows completing test for selected years since 1934 is shown in Table 1.

TABLE 1.

AVERAGE PRODUCTION—PURE BRED HERDS.

| Year. | No. of Cows Completing Test. | Average Butterfat per Cow. |
|---|---|---|
| | | lb. |
| 1934–35 .... .... .... .... .... | 305 | 320.26 |
| 1938–39 .... .... .... .... .... | 375 | 292.40 |
| 1940–41 .... .... .... .... .... | 372 | 298.38 |
| 1942–43 .... .... .... .... .... | 294 | 321.27 |
| 1944–45 .... .... .... .... .... | 344 | 289.42 |
| 1947–48 .... .... .... .... .... | 607 | 297.24 |
| 1948–49 .... .... .... .... .... | 598 | 288.98 |

Subterranean Clover and Wimmera Rye Pasture under green timber—Pinjarra.

The percentage of cows passing standard for selected years since 1937/38 is given in Table 2. This table reveals that with the exception of the year 1945/46, the percentage of cows passing standard in the year under review is the lowest since 1937/38.

Guernseys show a decrease of 2.3 per cent., Jerseys a decrease of 5.8 per cent. and A.I.S. a decrease of 8.7 per cent. compared with 1947/48. For all breeds only 48.5 per cent. reached standard production compared with 54.0 per cent. in 1947/48.

TABLE 2.

PERCENTAGE OF COWS PASSING STANDARD.

| Year. | Australian Illawarra Shorthorn. | Guernsey. | Jersey. | Total. |
|---|---|---|---|---|
| | % | % | % | % |
| 1937–38 .... .... .... .... | 59.1 | 68.7 | 35.6 | 53.1 |
| 1939–40 .... .... .... .... | 48.0 | 77.5 | 64.2 | 59.2 |
| 1944–45 .... .... .... .... | 52.5 | 43.4 | 72.2 | 57.3 |
| 1945–46 .... .... .... .... | 43.1 | 33.3 | 52.9 | 43.8 |
| 1947–48 .... .... .... .... | 44.4 | 54.4 | 63.2 | 54.0 |
| 1948–49 .... .... .... .... | 35.7 | 52.1 | 57.4 | 48.5 |

Irrigated Pasture—Waroona.

The number of cows passing standard and the proportion in each age group of each breed is shown in Table 3.

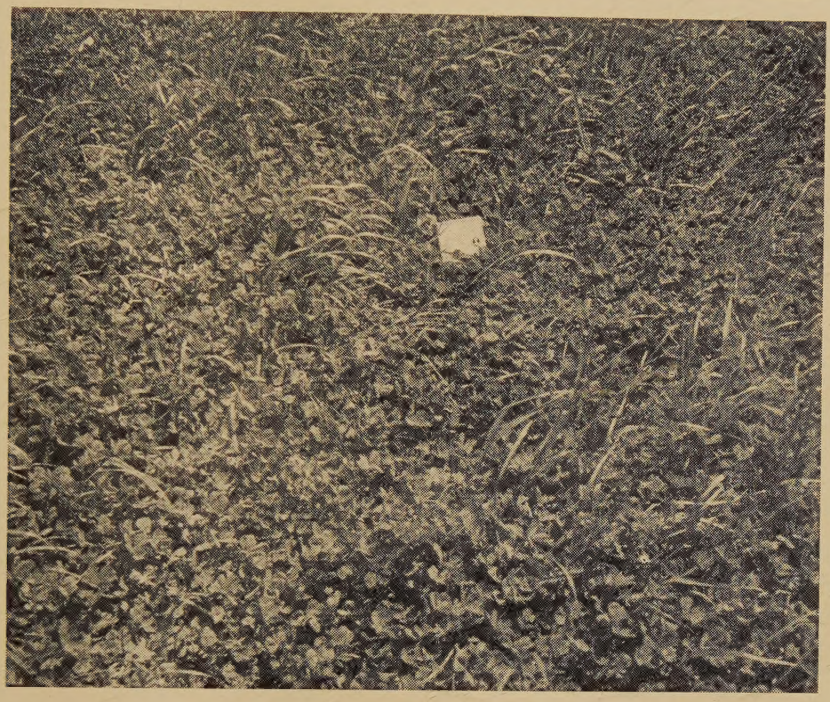
A study of this table shows that in the four junior age groups, i.e., senior three to junior two, the precentage reaching standard was 57.8 per cent. while in the three age groups mature to junior four years, the percentage is only 36.2 per cent.

TABLE 3.

COWS PASSING STANDARD.

| Age Class. | A.I.S. | | Guernsey. | | Jersey. | | All Breeds. | |
|---|---|---|---|---|---|---|---|---|
| | No. of Cows Tested. | No. Passing Standard. | No. of Cows Tested. | No. Passing Standard. | No. of Cows Tested. | No. Passing Standard. | No. of Cows Tested. | No. Passing Standard. |
| Mature .... .... | 46 | 13 | 43 | 18 | 71 | 31 | 160 | 62 |
| Senior 4 years.... | 18 | 3 | 14 | 5 | 21 | 11 | 53 | 19 |
| Junior 4 years.... | 12 | 3 | 16 | 4 | 18 | 6 | 46 | 13 |
| Senior 3 years.... | 11 | 6 | 12 | 8 | 17 | 10 | 40 | 24 |
| Junior 3 years.... | 26 | 11 | 18 | 14 | 29 | 17 | 73 | 42 |
| Senior 2 years.... | 29 | 12 | 6 | 4 | 30 | 25 | 65 | 41 |
| Junior 2 years.... | 68 | 27 | 37 | 23 | 56 | 39 | 161 | 89 |
| Total .... | 210 | 75 | 146 | 76 | 242 | 139 | 598 | 290 |
| Percentages | 35.7 | | 52.1 | | 57.4 | | 48.5 | |

Uneven growth shows the need for renovation and harrowing—Waroona.



A good pasture, a mixture of Subterranean Clover and Wimmera Rye Grass—Armadale.

Irrigated Pasture: Cocksfoot, Perennial Rye Grass, White and Strawberry Clovers—Waroona.

The average production of milk and butterfat in each age group of each breed is shown in Table 4.

TABLE 4.

AVERAGE PRODUCTION IN EACH AGE CLASS, 1948–49.

| AGE CLASS. | Butterfat Standard Required lb. | A.I.S. | | | | Guernsey. | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | No. of Cows. | Average Milk lb. | % Test. | Average Butterfat. lb. | No. of Cows. | Average Milk lb. | % Test. | Average Butterfat. lb. |
| Mature .... .... | 350 | 46 | 7,484 | 3·95 | 295·92 | 43 | 6,359 | 5·19 | 330·53 |
| Senior 4 years .... | 330 | 18 | 7,522 | 3·75 | 282·27 | 14 | 6,285 | 5·07 | 319·25 |
| Junior 4 years .... | 310 | 12 | 7,302 | 4·05 | 296·21 | 16 | 5,812 | 5·07 | 294·99 |
| Senior 3 years .... | 290 | 11 | 7,178 | 3·91 | 280·93 | 12 | 6,450 | 5·47 | 353·22 |
| Junior 3 years .... | 270 | 26 | 6,365 | 4·05 | 257·96 | 18 | 6,464 | 5·19 | 336·02 |
| Senior 2 years .... | 250 | 29 | 5,995 | 3·92 | 235·17 | 6 | 5,562 | 5·27 | 293·34 |
| Junior 2 years .... | 230 | 68 | 5,376 | 3·99 | 214·94 | 37 | 5,014 | 5·19 | 260·17 |
| TOTAL .... .... | .... | 210 | 6,434 | 3·95 | 254·68 | 146 | 5,939 | 5·19 | 308·73 |

| AGE CLASS. | Butterfat Standard Required lb. | Jersey. | | | | All Breeds. | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | No. of Cows. | Average Milk lb. | % Test. | Average Butterfat. lb. | No. of Cows. | Average Milk lb. | % Test. | Average Butterfat. lb. |
| Mature .... .... | 350 | 71 | 6,328 | 5·00 | 329·16 | 160 | 6,655 | 4·81 | 319·29 |
| Senior 4 years .... | 330 | 21 | 5,916 | 5·52 | 326·56 | 53 | 6,557 | 4·72 | 309·59 |
| Junior 4 years .... | 310 | 18 | 5,611 | 5·24 | 294·46 | 46 | 6,122 | 4·82 | 295·10 |
| Senior 3 years .... | 290 | 17 | 6,111 | 5·30 | 323·99 | 40 | 6,506 | 4·91 | 320·92 |
| Junior 3 years .... | 270 | 29 | 5,578 | 5·56 | 310·57 | 73 | 6,077 | 4·90 | 298·11 |
| Senior 2 years .... | 250 | 30 | 5,541 | 5·56 | 308·07 | 65 | 5,746 | 4·77 | 274·19 |
| Junior 2 years .... | 230 | 56 | 4,941 | 5·40 | 267·28 | 161 | 5,129 | 4·76 | 244·16 |
| TOTAL .... .... | .... | 242 | 5,715 | 5·37 | 306·84 | 598 | 6,022 | 4·79 | 288·98 |

It will be seen that the average for all breeds in the age groups mature, senior four and junior four is below standard.

In the A.I.S. breed the average was below standard in all age groups while the Guernseys and Jerseys exceeded standard in the three year old and two year old groups, the senior three year old Guernseys did particularly well with an average of 353.22 lb. of butterfat. The senior two year old Jerseys also put up a creditable performance with an average of 308.07 lb. of butterfat.

The average milk per cow for all breeds was 364 lb. less than the previous year.

A comparison between the production of cows under test 150 days and over with cows completing 273 days, according to breed and age class is given in Table 5. The 273 day averages reveal that all age groups in each breed exceeded standard butterfat production.

Six senior three year old Guernseys averaged 410.25 lb. and 13 senior four year old Jerseys averaged 409.34 lb. of butterfat. Of the 598 cows under test 150 days or more, 397 or 66.4 per cent. completed 273 days; this is 6.2 per cent. less than last year.

TABLE 5.

COMPARATIVE TABLE SHOWING AVERAGE PRODUCTION IN EACH AGE CLASS OF COWS UNDER TEST 150 DAYS OR OVER AND COWS COMPLETING 273 DAYS.

| AGE CLASS. | Standard Butterfat Required. | A.I.S. | | | | Guernsey. | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | No. of Cows Tested 150 days or over. | Average Butterfat. lb. | No. of Cows Completing 273 days. | Average Butterfat. lb. | No. of Cows Tested 150 days or over. | Average Butterfat. lb. | No. of Cows Completing 273 days. | Average Butterfat. lb. |
| Mature .... .... | 350 | 46 | 295·92 | 19 | 367·87 | 43 | 334·07 | 34 | 361·08 |
| Senior 4 years .... | 330 | 18 | 282·27 | 9 | 336·49 | 14 | 319·25 | 9 | 371·75 |
| Junior 4 years .... | 310 | 12 | 296·21 | 7 | 344·03 | 16 | 294·99 | 11 | 341·38 |
| Senior 3 years .... | 290 | 11 | 280·93 | 7 | 319·06 | 12 | 353·22 | 6 | 410·25 |
| Junior 3 years .... | 270 | 26 | 257·96 | 17 | 296·58 | 18 | 336·02 | 15 | 346·06 |
| Senior 2 years .... | 250 | 29 | 235·17 | 16 | 270·40 | 6 | 293·34 | 5 | 316·76 |
| Junior 2 years .... | 230 | 68 | 214·94 | 45 | 237·65 | 37 | 260·17 | 21 | 326·12 |
| Averages .... | .... | 210 | 254·68 | 120 | 289·48 | 146 | 308·73 | 101 | 351·11 |
| With Allowances | .... | .... | 293·49 | .... | 337·57 | .... | 346·76 | .... | 391·82 |

| AGE CLASS. | Standard Butterfat Required. | Jersey. | | | | All Breeds. | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | No. of Cows Tested 150 days or over. | Average Butterfat. lb. | No. of Cows Completing 273 days. | Average Butterfat. lb. | No. of Cows Tested 150 days or over. | Average Butterfat. lb. | No. of Cows Completing 273 days. | Average Butter fat. lb. |
| Mature .... .... | 350 | 71 | 329·16 | 52 | 363·24 | 160 | 319·29 | 105 | 363·37 |
| Senior 4 years .... | 330 | 21 | 192·03 | 13 | 409·34 | 53 | 309·59 | 31 | 377·27 |
| Junior 4 years .... | 310 | 18 | 216·92 | 14 | 316·61 | 46 | 295·10 | 32 | 331·12 |
| Senior 3 years .... | 290 | 17 | 323·99 | 11 | 333·57 | 40 | 320·92 | 24 | 348·50 |
| Junior 3 years .... | 270 | 29 | 310·57 | 20 | 328·86 | 73 | 298·11 | 52 | 342·50 |
| Senior 2 years .... | 250 | 30 | 308·07 | 23 | 324·21 | 65 | 274·19 | 44 | 303·76 |
| Junior 2 years .... | 230 | 56 | 267·28 | 43 | 291·34 | 161 | 244·16 | 109 | 276·05 |
| Averages .... | .... | 242 | 306·84 | 176 | 345·92 | 598 | 288·98 | 397 | 330·14 |
| With Allowances | .... | .... | 347·40 | .... | 379·28 | .... | 328·32 | .... | 369·85 |

The leading sire for the year was for the third successive year the Jersey Bull "Mornmoot Northwood Beau" owned by R. H. Rose and Son. His six best daughters averaged with allowances 569.10 lb. of butterfat. He was followed by "Juadine Royal" (Jersey) owned by G. Layman, 511.97 lb. of butterfat and "Koojan Ace's Warspite" owned by the Denmark Research Station with 509.56 lb. of butterfat.

Average of the six best and all daughters of each sire is shown in Table 6.

TABLE 6.

LEADING THREE SIRES, 1948-49.

| Name of Bull. | Owner. | Sire. | Dam. | Average Production of six best daughters. | | Average Production of all daughters under test. | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Without allowances (lb. butter-fat.) | With allowances (lb. butter-fat.) | No. of Daughters under Test. | Without allowances lb. butter-fat.) | With allowances (lb. butter-fat.) |
| Mornmoot Northwood Beau (Jersey) (17798) | R. H. Rose & Son | Glen Iris Golden Beau (14629) | Mornmoot Northwood Madeira 7th (63202) | 528.39 | 569.10 | 18 | 401.18 | 439.83 |
| Juadine Royal (Jersey) (20841) | G. Layman .... | Navua Royal Star (15869) | Juadine Queen (87022) | 423.24 | 511.97 | 8 | 391.08 | 472.48 |
| Koojan Ace's Warspite (Guernsey) (5943) | Denmark Research Station | Homestead Ace (Imp.) U.S.A. (1631) | Koojan Ideal's Jewel (7257) | 406.32 | 509.56 | 9 | 386.75 | 467.92 |

The productions of the three leading cows in each age group are shown in Table 7. One was over 700 lb. of butterfat, three over 600 lb., eight over 500 lb. and 8 over 400 lb. Of the 21 cows, ten are Jerseys, ten Guernseys and one A.I.S.

TABLE 7.

THREE LEADING COWS IN EACH AGE CLASS, 1948–49.

| Name of Cow. | Breed. | Milk. lb. | Average Test. % | Butter-fat. lb. | Owner. |
|---|---|---|---|---|---|
| **MATURE (STANDARD 350 LB. BUTTERFAT).** | | | | | |
| Mokine Beauty .... .... .... | Jersey | 11127 | 5·94 | 661·13 | T. H. Wilding |
| Congelin Rose Marie 6th .... | Jersey | 10068 | 6·25 | 629·14 | D. Bradford |
| Grass Vale Lady Fowler 33rd .... | Jersey | 11574 | 5·18 | 601·09 | R. H. Rose & Son |
| **SENIOR 4 YEAR OLD (330 LB. BUTTERFAT).** | | | | | |
| Koojan Noblemark's Bo Peep .... | Guernsey | 9855 | 5·76 | 567·97 | A. W. Padbury |
| Grassvale Eve .... .... .... | Jersey | 8802 | 5·88 | 517·38 | R. H. Rose & Son |
| Grassvale Golden Cream 26th .... | Jersey | 8397 | 6·00 | 504·57 | R. H. Rose & Son |
| **JUNIOR 4 YEAR OLD (310 LB. BUTTERFAT).** | | | | | |
| Marrivale Anne .... .... .... | Guernsey | 9108 | 6·56 | 598·14 | W. J. Smith |
| River Glen Clarabelle 67th .... | A.I.S. | 11184 | 4·35 | 487·27 | M. H. Montgomery |
| Muresk Veronica .... .... .... | Guernsey | 8439 | 5·33 | 449·46 | Muresk Agricultural College |
| **SENIOR 3 YEAR OLD (290 LB. BUTTERFAT).** | | | | | |
| Denmark Ace's Velvet .... .... | Guernsey | 11443 | 6·54 | 748·93 | Denmark Research Station |
| Grassvale Buttercup 17th .... | Jersey | 10359 | 5·47 | 566·71 | R. H. Rose & Son |
| Denmark Ace's Dawn 3rd .... | Guernsey | 8445 | 5·39 | 455·52 | Denmark Research Station |
| **JUNIOR 3 YEAR OLD (270 LB. BUTTERFAT).** | | | | | |
| Carydale Royal Queen .... .... | Jersey | 10261 | 5·75 | 590·29 | G. Layman |
| Denmark Aristocrat's Valencia .... | Guernsey | 9462 | 5·14 | 486·70 | Denmark Research Station |
| Muresk Lady Ideal .... .... | Guernsey | 8406 | 5·35 | 449·93 | Muresk Agricultural College |
| **SENIOR 2 YEAR OLD (250 LB. BUTTERFAT).** | | | | | |
| Carydale Royal Princess .... | Jersey | 9769 | 5·43 | 530·57 | G. Layman |
| Colmyn Jewel .... .... .... | Jersey | 7644 | 5·95 | 454·85 | C. H. Ironmonger |
| Trelawney Lightly .... .... | Jersey | 6811 | 5·71 | 389·18 | J. C. Bushell |
| **JUNIOR 2 YEAR OLD (230 LB. BUTTERFAT).** | | | | | |
| Marrivale Vera .... .... .... | Guernsey | 7450 | 6·85 | 510·78 | W. J. Smith |
| Denmark Ace's Valencia .... | Guernsey | 7704 | 5·70 | 439·80 | Denmark Research Station |
| Muresk Mariclena .... .... | Guernsey | 7443 | 5·84 | 434·46 | Muresk Agricultural College |

*New Records.*

Five new records were established during the year.

Silage provides a succulent feed for summer feeding—Armadale.

Hay Baling. An automatic pick-up baler in action—York.

A power mower cutting oats, lucerne and clover for silage—Armadale.

*Jersey* (*Senior 2 year old class*).

"Carydale Royal Princess," owned by G. Layman, in producing 9,769 lb. of milk, average test 5.45 per cent. and 530.57 lb. of butterfat exceeded the previous record in this class, held since 1924 by Jean 2nd, of Grassvale whose production was 8701 lb. of milk, average test 5.84 per cent. and 508.93 lb. of butterfat.

The dam of "Carydale Royal Princess" was "Colmyn Janis 2nd" and her sire "Juadine Royal." "Juadine Royal's" dam "Juadine Queen" held the Junior two year old record (Jersey) in 1943.

"Carydale Royal Princess" now holds the following State Records, Senior and Junior two year old classes (Jersey Breed), West Australian Breed (Junior two year old) and all Breeds Junior two year old.

*Guernsey* (*Junior 2 year old class*).

"Marrivale Vera," owned by W. J. Smith of Denmark established a new record in this class, her production being 7450 lb. of milk, average test 6.85 per cent. and 510.78 lb. of butterfat. The previous record in this class was held by "Koojan Ideal's Daphne" with 489.13 lb. of butterfat.

"Marrivale Vera" is by Denmark Ace's Image," her dam being "Marrivale Dawn."

## TABLE 8—PURE BRED HERD TESTING.

Cows which completed test during the 12 months ended 30th June, 1949.

| Name of Cow. | Breed. | Herd Book No. | Date of Birth. | Date of Entry to Test. | No. of Days in Test. | Weight of Milk on Last Day of Test. lb. | Weight of Milk for Period. lb. | Average Test. % | Weight of Butter Fat for Period. lb. | Owner. | Sire. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| COWS UNDER 2½ YEARS—STANDARD 230 LBS. BUTTERFAT. | | | | | | | | | | | |
| Marrivale Vera | Guernsey | 16043 | 9-3-46 | 25-5-48 | 273 | 13.5 | 7,450 | 6.85 | 510.78 | W. J. Smith | Denmark Ace's Image (5741) |
| Denmark Ace's Valencia | do. | 15651 | 12-3-46 | 17-6-48 | 273 | 18.0 | 7,704 | 5.70 | 439.80 | Denmark Research Station | Demark Ace (5738) |
| Muresk Marielena | do. | 16152 | 25-7-46 | 29-9-48 | 273 | 21.0 | 7,443 | 5.84 | 434.46 | Muresk Agricultural College | Koojan Ace's Warspite (5943) |
| Grassvale Silvermine 6th | Jersey | .... | 1-4-46 | 25-7-48 | 273 | 13.5 | 7,165 | 6.03 | 432.40 | R. H. Rose & Son | Mornmoot Northwood Beau (17798) |
| Trelawney Starbright 2nd | do. | .... | 7-6-46 | 31-7-48 | 273 | 21.0 | 7,203 | 5.99 | 431.34 | J. C. Bushell | Juadine Commander (1397) |
| Eungella Miss Marinora 2nd | do. | .... | 25-4-46 | 21-5-48 | 273 | 17.5 | 7,552 | 5.67 | 428.04 | D. G. Spark | Hopelands Marinora's Star (20814) |
| Muresk Diamond Lass 2nd | Guernsey | .... | 24-5-46 | 12-5-48 | 273 | 25.0 | 7,725 | 5.39 | 416.08 | Muresk Agricultural College | Koojan Ace's Warspite (5943) |
| Kapara Sweet Briar 2nd | Jersey | .. | 8-5-46 | 2-7-48 | 273 | 23.0 | 7,899 | 5.23 | 412.92 | D. Bradford | Congelin Washington (18426) |
| Muresk Minnie | Guernsey | 16153 | 27-6-46 | 11-10-48 | 273 | 21.0 | 7,953 | 5.12 | 407.46 | Muresk Agricultural College | Koojan Ace's Warspite (5943) |
| Denmark Reflection's Marion | do. | 15653 | 4-2-46 | 24-6-48 | 273 | 18.0 | 6,204 | 5.97 | 370.96 | Denmark Research Station | Koojan Ideal's Reflection (4974) |
| Denmark Reflection's Ripple | do. | .... | 23-6-46 | 20-8-48 | 273 | 14.5 | 5,998 | 6.01 | 360.72 | do. do. | do. do. do. |
| Eungella Gaiety Girl | Jersey | .. | 24-4-46 | 21-5-48 | 273 | 14.0 | 7,136 | 4.94 | 352.72 | D. G. Spark | Hopelands Marinora's Star (20814) |
| Wooroloo Sapphire 2nd | A.I.S. | 54746 | 5-1-46 | 9-6-48 | 273 | 18.0 | 8,394 | 4.19 | 351.91 | Wooroloo Sanatorium Farm | Glanavon Fusilier (8106) |
| Koojan Whirlwind's Trixie | Guernsey | 15900 | 9-9-45 | 6-11-47 | 273 | 22.0 | 7,026 | 5.00 | 351.68 | A. W. Padbury | Koojan Ace's Whirlwind (7447) |
| Koojan Ace's Bramble | do. | 15877 | 8-9-45 | 2-12-47 | 273 | 24.0 | 6,822 | 5.14 | 350.45 | do. | Homestead Ace (Imp. 1631) |
| Eungella Ballerina | Jersey | .. | 21-4-46 | 10-5-48 | 273 | 16.0 | 6,683 | 5.23 | 349.66 | D. G. Spark | Hopelands Marinora's Star (20814) |
| Muresk Morning Glory 2nd | Guernsey | 16154 | 26-1-46 | 11-2-48 | 273 | 24.0 | 6,372 | 5.46 | 348.35 | Muresk Agricultural College | Koojan Ace's Warspite (5943) |
| Muresk Diana 2nd | do. | 16143 | 26-1-46 | 28-4-48 | 273 | 22.0 | 7,506 | 4.58 | 344.27 | do. do. | Koojan Ideal's Dictator (4167) |
| Wooroloo Patsy 4th | A.I.S. | 54738 | 1-3-46 | 20-7-48 | 273 | 16.0 | 8,028 | 4.27 | 342.59 | Wooroloo Sanatorium Farm | Glanavon Fusilier (8106) |
| Wooroloo Laureen | A.I.S. | 54729 | 27-3-46 | 12-9-48 | 273 | 24.0 | 7,962 | 4.25 | 338.72 | do. do. | do. do. do. |
| Travalgan Lady Elon 36th | Jersey | .... | 17-7-46 | 4-8-48 | 273 | 13.0 | 5,499 | 6.08 | 334.32 | W. H. & T. F. Robinson | Mornmoot Laver (17792) |
| Eungella Annette | do. | .. | 16-7-46 | 9-5-48 | 273 | 12.5 | 6,262 | 5.32 | 333.48 | D. G. Spark | Hopelands Marinora's Star (20814) |
| Travalgan Starbright 38th | do. | .. | 14-6-46 | 24-6-48 | 273 | 12.0 | 5,436 | 6.09 | 331.26 | W. H. & T. F. Robinson | Mornmoot Laver (17792) |
| Grassvale Lady Fowler 47th | do. | .... | 31-5-46 | 24-6-48 | 273 | 11.0 | 5,658 | 5.67 | 321.01 | R. H. Rose & Son | Glen Iris Golden Oxford (12694) |
| Carydale Royal Twinkle | do. | .... | 14-3-46 | 28-3-48 | 273 | 19.5 | 6,478 | 4.89 | 317.03 | G. Layman | Juadine Royal (20841) |
| Travalgan Starbright 34th | do. | .... | 26-5-46 | 16-6-48 | 273 | 10.0 | 5,760 | 5.44 | 313.59 | W. H. & T. F. Robinson | Mornmoot Laver (17792) |
| Denmark Aristocrat's Reflectionette | Guernsey | .... | 7-5-46 | 5-8-48 | 273 | 13.0 | 5,429 | 5.77 | 313.49 | Denmark Research Station | Denmark Ace's Aristocrat (5740) |
| Walgett Handsome Girl 44th | Jersey | .... | 1-5-46 | 27-5-48 | 273 | 12.5 | 5,992 | 5.22 | 312.76 | C. J. Cunningham | Selsey Wyandotte's Prince (18058) |
| Kapara Rose Marie | do. | .... | 11-4-46 | 29-5-48 | 273 | 16.0 | 5,193 | 5.93 | 307.78 | D. Bradford | Congelin Mandarin (14542) |
| Chillwell Zena's Daphne | do. | .... | 1-8-45 | 9-10-47 | 273 | 15.0 | 5,360 | 5.73 | 307.59 | Mrs. M. A. Watson | Travalgan Leader (958) |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Claremont Mavis 12th .... | A.I.S. | .... | 11-11-45 | 10-4-48 | 273 | 24.0 | 7,902 | 3.86 | 305.23 | Wooroloo Sanatorium Farm | Westby Masterpiece (5403) |
| Eungella Lynette .... .... | Jersey | .... | 6-8 46 | 12-7-48 | 273 | 6.0 | 5,688 | 5.37 | 305.22 | D. G. Spark .... .... | Hopelands Marinora's Star (20814) |
| Rutherwood Rosebud 2nd .... | Guernsey | 16483 | 7-3-46 | 9-6-48 | 273 | 12.0 | 6,576 | 4.61 | 303.51 | G. Brenton .... .... | Koojan Ace's Sunshade (5942) |
| Kapara Duchess 4th .... | Jersey | .... | 11-5-46 | 4-6-48 | 273 | 19.0 | 5,997 | 5.04 | 302.21 | D. Bradford .... .... | Congelin Washington (18426) |
| Eungella Athena .... .... | do. | .... | 14-5 46 | 24-5-48 | 273 | 11.0 | 4,773 | 6.29 | 300.54 | D. G. Spark .... .... | Hopelands Marinora's Star (20814) |
| Glanavon Fairy 13th .... | A.I.S. | .... | 16-5-45 | 19-10-47 | 273 | 22.0 | 7,176 | 4.12 | 295.87 | D. Bevan & Sons .... | Glanavon Tranter (8121) |
| Koojan Ace's Beauty .... | Guernsey | 15875 | 28-8-45 | 1-3 48 | 240 | 28.0 | 5,895 | 5.05 | 295.32 | R. J. Giles .... .... | Homestead Ace (Imp. 1631) |
| Claremont Whitby Maiden 5th | A.I.S. | .... | 2-2 46 | 28-5-48 | 273 | 22.0 | 6,936 | 4.22 | 292.56 | Claremont Hospital for Insane | Glanavon Dunster (6867) |
| Korijekup Norma .... .... | Jersey | .... | 10-10-45 | 29-1-48 | 273 | 23.0 | 6,369 | 4.56 | 290.67 | A. G. Eckersley .... | Navua Royal star (15869) |
| Carydale Royal Camelia .... | do. | .... | 1-3 46 | 19-5-48 | 240 | 15.5 | 5,400 | 5.37 | 290.46 | G. Layman .... .... | Juadine Royal (20841) |
| Rutherwood Daisy 2nd | Guernsey | 16426 | 27-3 46 | 19-5-48 | 273 | 12.0 | 5,286 | 5.44 | 287.53 | G. Brenton .... .... | Koojan Ace's Sunshade (5942) |
| Walgett Handsome Girl 46th | Jersey | .... | 26-5-46 | 9-5-48 | 273 | 16 0 | 5,283 | 5.44 | 287.49 | C. J. Cunningham .... | Selsey Wyandotte's Prince (18058) |
| Wooroloo Doreen 8th .... | A.I.S. | 54718 | 12-6-46 | 23-9-48 | 273 | 20.0 | 6,636 | 4.31 | 285.94 | Wooroloo Sanatorium Farm | Glanavon Fusilier (8106) |
| Denmark Reflections Velvet | Guernsey | 15654 | 19-11-45 | 12 3-48 | 273 | 19.0 | 5,352 | 5.34 | 285.61 | Denmark Research Station | Koojan Ideal's Reflection (4974) |
| Rosella Fairy .... .... | do. | | 28-4 46 | 30-4-48 | 273 | 8.5 | 5,350 | 5.32 | 284.80 | Darnell Bros. .... | Koojan Ace's Roosevelt (7439) |
| Walgett Proud Fairy .... | Jersey | .... | 23 4-46 | 28 6-48 | 273 | 11.5 | 5,674 | 5.02 | 284.77 | C. J. Cunningham .. | Mornmoot Paxie's Captain 2nd (697) |
| Travalgan Lady Mint 10th .... | do. | .... | 22-8-46 | 15-8-48 | 273 | 9 0 | 4,767 | 5.91 | 281.75 | W. H. & F. T. Robinson | Mornmoot Laver (17792) |
| Amaroo Cleo .... .... | do. | .... | 9-5-46 | 17-5-48 | 273 | 8.0 | 6,039 | 4.65 | 280.73 | T. O. Abbott .... | Eungella Golden Starbright (20666) |
| Travalgan Starbright 36th .... | do. | .... | 30-5-46 | 12-6-48 | 273 | 9.0 | 4,647 | 5.98 | 278.05 | W. H. & F. T. Robinson | Mornmoot Laver (17792) |
| Travalgan Starbright 39th .... | do. | .... | 1-8 46 | 20-8-48 | 273 | 11.0 | 4,863 | 5.71 | 277.77 | do. do. | do. do. do. |
| Claremont Lily 13th .... | A.I.S. | .... | 26-11-45 | 13-4-48 | 273 | 18.0 | 6,894 | 3.94 | 271.91 | Wooroloo Sanatorium Farm | Westby Monarch (5404) |
| Tipperary Gem .... .... | A.I.S. | .... | 26-5-46 | 19-5-48 | 273 | 17.0 | 7,221 | 3.76 | 271.77 | W. G. Burges .... | Parkview Mosaic (6080) |
| Tipperary Dove 34th .... | do. | .... | 25-2 46 | 15-5-48 | 273 | 17.0 | 6,426 | 4.21 | 270.51 | do. .... .... | Glanavon Povey (8114) |
| Colmyn Chloe .... .... | Jersey | .... | 23-8-46 | 14-9-48 | 273 | 14.0 | 5,492 | 4.88 | 268.35 | C. H. Ironmonger .... | Eungella Prince Starbright (19538) |
| Travalgan Attraction .... | do. | .... | 1-8-45 | 25-11-47 | 273 | 26.0 | 4,500 | 5.96 | 268.13 | W. H. & T. F. Robinson | Mornmoot Laver (17792) |
| Walgett Handsome Girl 47th | do. | .... | 26-6 46 | 29-6-48 | 273 | 11.0 | 5,133 | 5.22 | 267.86 | C. J. Cunningham .... | Mornmoot Paxie's Captain 2nd (697) |
| Rutherwood Maid Marion 2nd | Guernsey | 16435 | 29-5-46 | 3-6-48 | 240 | 14.0 | 6,120 | 4.35 | 266.19 | G. Brenton .... .... | Koojan Ace's Sunshade (5942) |
| Walgett Golden Glory .... | Jersey | .... | 31-3-46 | 27-5-48 | 273 | 10 0 | 5,310 | 5.00 | 266.17 | C. J. Cunningham .... | Selsey Wyandotte's Prince (18058) |
| Glanavon Doris 22nd .... | A.I.S. | .... | 25-12 45 | 2-11-47 | 273 | 21.0 | 6,513 | 4.06 | 264.99 | D. Bevan & Sons .... | Glanavon Fairy's Triumph (8105) |
| Korijekup Opal .... | Jersey | .. | 19-10-45 | 12-2-48 | 273 | 16.0 | 5,433 | 4.87 | 264.70 | A. G. Eckersley .. | Navua Royal Star (15869) |
| Claremont Clara 28th .... | A.I.S. | . | 21-2-46 | 27-5-48 | 273 | 18.0 | 6,189 | 4.25 | 262.98 | Claremont Hospital for Insane | Westby Masterpiece (5403) |
| Kapara Fairy Queen .... | Jersey | | 21 4-46 | 29 6-48 | 273 | 13 0 | 4,689 | 5.59 | 262.28 | D. Bradford .... .... | Congelin Washington (18426) |
| Claremont Cherry 49th .... | A.I.S. | .. | 16 4-46 | 2 8-48 | 273 | 15.0 | 6,135 | 4.25 | 260.78 | Claremont Hospital for Insane | Westby Masterpiece (5403) |
| Southlyn Winnefra .... .... | do. | .. | 26-8-46 | 7-6-48 | 273 | 7.0 | 6,321 | 4.11 | 259.59 | J. H. Bensted & Co. | Capel Rose's Star (7902) |
| Wooroloo Waratah .... .... | do. | 54755 | 28-9-45 | 7-3-48 | 273 | 13.0 | 5,739 | 4.48 | 257.36 | Wooroloo Sanatorium Farm | Glanavon Fusilier (8106) |
| Wooroloo Ailsa .... .... | do. | 54712 | 25 5-46 | 19 9-48 | 273 | 16.0 | 5,628 | 4.55 | 256.31 | do. do. | Wooroloo Baron's Reward (8870) |
| Travalgan Lady Eion 37th .. | Jersey | .. | 15 9-46 | 24-8-48 | 273 | 11.0 | 4,680 | 5.47 | 256.11 | W. H. & T. F. Robinson | Mornmoot Laver (17792) |
| Wooroloo Red Glow .... | A.I.S. | 54744 | 5-1-46 | 7-3-48 | 273 | 18.0 | 5,934 | 4.29 | 254.66 | Wooroloo Sanatorium Farm | Glanavon Fusilier (8106) |
| Rosella Melba .... .... | Guernsey | .... | 28-9-46 | 23-7-48 | 273 | 13.5 | 4,995 | 5.00 | 249.99 | Darnell Bros. .... .... | Koojan Ace's Roosevelt (7439) |
| Travalgan Starbright 35th .... | Jersey | .... | 27-5-46 | 5-7-48 | 273 | 8.0 | 4,674 | 5.34 | 249.92 | W. H. & T. F. Robinson | Mornmoot Laver (17792) |

TABLE 8—PURE HERD TESTING—*continued.*

Cows which completed test during the twelve months ended 30th June, 1949—*continued.*

| Name of Cow. | Breed. | Herd Book No. | Date of Birth. | Date of Entry to Test. | No. of Days in Test. | Weight of Milk on Last Day of Test. lb. | Weight of Milk for Period. lb. | Average Test. % | Weight of Butter Fat for Period. lb. | Owner. | Sire. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| COWS UNDER 2½ YEARS OLD—STANDARD 230 LB. BUTTER-FAT—*continued.* | | | | | | | | | | | |
| Rutherwood Golden Dawn 2nd | Guernsey | 16430 | 11–5–46 | 21–8–48 | 210 | 15.0 | 5,610 | 4.45 | 249.03 | G. Brenton .... .... | Denmark Golden Rippler (5751) |
| Travalgan Starbright 37th .... | Jersey | .... | 31–5–46 | 18–6–48 | 273 | 10.0 | 4,500 | 5.52 | 248.74 | W. H. & T. F. Robinson | Mornmoot Laver (17792) |
| Kapara Tangerine .... .... | Jersey | .... | 26–9–46 | 24–7–48 | 273 | 12.0 | 4,236 | 5.87 | 248.68 | D. Bradford .... .... | Grassvale Twylish Lad (21816) |
| Claremont Poppy 44th .... | A.I.S. | .... | 25–9–45 | 12–12–47 | 273 | 23.0 | 6,864 | 3.58 | 245.96 | Claremont Hospital for Insane | Capel Monarch (7898) |
| Clovelly Stella .... .... | Guernsey | .... | 12–5–46 | 15–6–48 | 273 | 6.0 | 5,133 | 4.76 | 244.43 | J. Cabassi .... .... | Pleasant Banks Windsor (7820) |
| Glanavan Buttercup 13th .... | A.I.S. | .... | 19–10–45 | 17–3–48 | 150 | 48.0 | 6,585 | 3.70 | 243.63 | D. Bevan & Sons .... | Glanavon Lord (8109) |
| Claremont Maggie Morrison 78th | A.I.S. | .... | 4–3–46 | 24–5–48 | 273 | 15.0 | 5,940 | 4.09 | 243.28 | Claremont Hospital for Insane | Westby Masterpiece (5403) |
| Claremont Maggie Morrison 76th | do. | .... | 13–2–46 | 2–6–48 | 273 | 17.0 | 6,801 | 3.58 | 243.20 | do. do. | Westby Monarch (5404) |
| Tirano Katoomba 3rd .... | do. | .... | 5–2–46 | 15–6–48 | 273 | 12.5 | 5,737 | 4.21 | 241.72 | J. H. Bensted & Co. .... | Wooroloo Clansman (8874) |
| Mayvale Golden Bell .... | Guernsey | 16048 | 11–12–45 | 10–5–48 | 273 | 17.5 | 5,257 | 4.59 | 241.51 | R. J. Giles .... .... | Koojan Ideal's Discoverer (4968) |
| Kapara Madeira .... .... | Jersey | .... | 16–7–46 | 7–4–48 | 273 | 16.0 | 4,788 | 5.02 | 240.75 | W. L. Bradford .... | Grassvale Twylish Lad (21816) |
| Colmyn Diana .... .... | do. | .... | 23–8–46 | 12–8–48 | 273 | 8.5 | 4,570 | 5.26 | 240.34 | C. H. Ironmonger .... | Eungella Prince Starbright (19538) |
| Claremont Maggie Morrison 77th | A.I.S. | .... | 3–3–46 | 30–6–48 | 273 | 23.0 | 6,654 | 3.61 | 240.14 | Claremont Hospital for Insane | Westby Masterpiece (5403) |
| Wattlehill Velvet .... .... | do. | .... | 15–8–46 | 11–7–48 | 273 | 15.5 | 6,706 | 3.56 | 238.84 | K. Prowse .... .... | Capel Cinderella King 2nd (7892) |
| Claremont Blossom 50th .... | do. | .... | 16–10–45 | 23–11–47 | 273 | 24.0 | 6,492 | 3.65 | 237.16 | Claremont Hospital for Insane | Capel Monarch (5404) |
| Grass Vale Lady Flower 50th | Jersey | .... | 2–8–46 | 21–8–48 | 180 | 12.5 | 4,530 | 6.03 | 237.15 | R. H. Rose & Son .... | Mornmoot Northwood Beau (17798) |
| Whitmore Girlie 2nd .... | Guernsey | 16673 | 10–5–46 | 6–7–48 | 240 | 15.0 | 4,710 | 5.02 | 236.40 | J. R. Giles .... .... | Lansdowne Dymphna's Climax (5963) |
| Tipperary Beauty 25th .... | A.I.S. | .... | 27–4–46 | 19–5–48 | 273 | 12.0 | 5,286 | 4.42 | 233.72 | W. G. Burges .... | Tipperary Ace (6336) |
| Doyson's Princess .... .. | do. | .... | 30–3–46 | 28–5–48 | 240 | 15.0 | 5,835 | 3.96 | 231.12 | W. H. Doyle & Son .... | Wooroloo Noble 4th (6411) |
| Claremont Star 38th .... | do. | .... | 21–7–45 | 12–12–47 | 273 | 9.0 | 6,012 | 3.81 | 229.08 | Claremont Hospital for Insane | Westby Monarch (5404) |
| Wooroloo Manequin .... | do. | 54733 | 23–4–46 | 22–9–48 | 273 | 13.0 | 5,109 | 4.45 | 227.39 | Wooroloo Sanatorium Farm | Wooroloo Morning Star (8882) |
| Claremont Poppy 46th .... | do. | .... | 11–3–46 | 30–5–48 | 273 | 15.5 | 6,616 | 3.42 | 226.20 | Claremont Hospital for Insane | Claremont Admiration (7923) |
| Claremont Mabel 37th .... | do. | .... | 25–2–46 | 30–5–48 | 273 | 19.5 | 6,598 | 3.37 | 222.61 | do. do. | Westby Masterpiece (5403) |
| Kapara Sweet Nell .... .... | Jersey | .... | 17–7–46 | 5–4–48 | 273 | 15.0 | 4,530 | 4.89 | 221.71 | W. L. Bradford .... | Grass Vale Twylish Lad (21816) |
| Kapara Valentine 2nd .... | do. | .... | 15–6–46 | 1–5–48 | 273 | 7.0 | 4,491 | 4.93 | 221.68 | do. do. | Grass Vale Twilight Laddie |
| Narrogin Chrissie .... .... | A.I.S. | .... | 15–4–46 | 3–6–48 | 240 | 19.0 | 5,100 | 4.32 | 220.14 | Narrogin School of Agriculture | Wooroloo Gay Gordon (8878) |
| Denmark Ace's Pekette .... | Guernsey | .... | 7–7–46 | 25–9–48 | 273 | 4.0 | 3.537 | 6.21 | 219.63 | Denmark Research Station | Denmark Ace (5738) |
| Chillwell Mignonette Mimosa | Jersey | .... | 16–7–46 | 23–9–48 | 273 | 10.5 | 3,796 | 5.74 | 218.05 | Mrs. M. A. Watson .... | Travalgan Leader (958) |
| Claremont Maggie Morrison 75th | A.I.S. | .... | 20–1–46 | 10–4–48 | 273 | 5.0 | 5,265 | 4.10 | 215.98 | Wooroloo Sanatorium Farm | Glanavon Dunster (6867) |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Claremont Treasure 52nd .... | do. | .... | 1-3-46 | 12-7-48 | 273 | 12.5 | 5,917 | 3.63 | 215.21 | Claremont Hospital for Insane | Westby Masterpiece (5403) |
| Rutherwood Daffodil 2nd .... | Guernsey | .... | 19-6-46 | 27-5-48 | 273 | 12.0 | 4,666 | 4.59 | 214.53 | Misses E. & I. Rutherford | Koojan Ace's Sunshade (5942) |
| Amaroo Troy .... .... | Jersey | .... | 22-4-46 | 27-5-48 | 273 | 6.0 | 4,083 | 5.23 | 213.76 | T. O. Abbott .... | Eungella Golden Starbright (20666) |
| Claremont Mabel 36th .... | A.I.S. | .... | 27-1-46 | 9-5-48 | 273 | 11.5 | 5,629 | 3.79 | 213.71 | Claremont Hospital for Insane | Westby Monarch (5404) |
| Glanavon Dahlia 33rd .... | do. | .... | 18-12-45 | 17-11-47 | 273 | 10.0 | 4,920 | 4.30 | 211.97 | D. Bevan & Sons .... | Glanavon Godfrey (8108) |
| Rutherwood Golden Butterfly 2nd | Guernsey | .... | 15-5-46 | 21-8-48 | 210 | 11.0 | 4,050 | 5.22 | 211.62 | G. Brenton .... .... | Koojan Ace's Sunshade (5942) |
| Wooroloo Petal .... .... | A.I.S. | 54739 | 12-4-46 | 12-9-48 | 240 | 10.0 | 4,680 | 4.36 | 203.94 | Wooroloo Sanatorium Farm | Glanavon Fusilier (8106) |
| Mereworth Bravo Silvermine | Jersey | .... | 25-6-45 | 22-12-47 | 273 | 19.0 | 3,317 | 6.13 | 203.56 | B. Langridge .... | Grantham Easter's Marchalong (20736) |
| Walgett Handsome Girl 43rd | do. | .... | 19-4-46 | 21-6-48 | 240 | 9.5 | 3,950 | 5.08 | 199.62 | C. J. Cunningham .... | Selsey Wyandotte's Prince (18058) |
| Murra Murra Northwood Dewdrop 2nd | do. | .... | 10-4-46 | 18-8-48 | 150 | 19.0 | 3,990 | 4.98 | 198.33 | Mrs. M. A. Crute .... | The Wold Northwood King (19138) |
| Doyson's Pansy 2nd .... | A.I.S. | .... | 1-5-46 | 17-5-48 | 210 | 13.5 | 4,320 | 4.55 | 196.65 | W. H. Doyle & Son ... | Wooroloo Noble 4th (6411) |
| Capel Empress Pretty .... | do. | 49401 | 7-9-46 | 2-5-48 | 273 | 18.5 | 5,845 | 3.36 | 196.38 | J. H. Bensted & Co. | Capel Rose's Star (7902) |
| Claremont Clarie 6th .... | do. | .... | 28-4-46 | 8-8-48 | 273 | 18.5 | 5,635 | 3.48 | 195.93 | Claremont Hospital for Insane | Capel Monarch (7898) |
| Murra Murra Marinita .... | Jersey | .... | 4-4-46 | 30-8-48 | 150 | 12.5 | 3,315 | 5.90 | 195.63 | Mrs. M. A. Crute .... | The Wold Northwood King (19138) |
| Claremont Stella 14th .... | A.I.S. | .... | 19-7-45 | 23-11-47 | 273 | 19.0 | 5,172 | 3.74 | 193.81 | Claremont Hospital for Insane | Claremont Wilton's Choice (7957) |
| Chillwell Betty's Heather .... | Jersey | .... | 12-7-46 | 1-9-48 | 180 | 12.0 | 3,315 | 5.84 | 193.50 | Mrs. M. A. Watson .... | Travalgan Leader (958) |
| Narrogin Lady .... .... | A.I.S. | .... | 21-4-46 | 19-4-48 | 240 | 16.0 | 4,980 | 3.86 | 192.15 | Narrogin School of Agriculture | Wooroloo Gay Gordon (8878) |
| Claremont Maggie Morrison 80th | do. | .... | 22-4-46 | 8-8-48 | 273 | 14.0 | 4,932 | 3.89 | 192.06 | Claremont Hospital for Insane | Glanavon Dunster (6867) |
| Claremont Whitby Maid 64th | do. | .... | 24-8-45 | 19-10-47 | 273 | 14.0 | 5,232 | 3.66 | 191.83 | do. do. | Westby Monarch (5404) |
| Yalebra Baronia .... .... | Jersey | .... | 20-4-46 | 5-6-48 | 273 | 10.0 | 4,440 | 4.31 | 191.52 | K. V. Gray .... .... | Radyr Park June Lad (26494) |
| Claremont Biddy 92nd .... | A.I.S. | .... | 20-10-46 | 29-8-48 | 273 | 14.5 | 5,008 | 3.77 | 188.82 | Claremont Hospital for Insane | Wooroloo Night Fighter (8884) |
| Narrogin Mignonette .... | do. | .... | 27-2-46 | 29-4-48 | 240 | 15.0 | 4,380 | 4.24 | 185.78 | Narrogin School of Agriculture | Wooroloo Gay Gordon (18878) |
| Yalebra Fairy Princess .... | Jersey | .... | 27-4-46 | 25-8-48 | 180 | 11.0 | 3,060 | 6.06 | 185.43 | K. V. Gray .... .... | Glanavon Diana's Lad (373) |
| Amaroo Diana .... .... | do. | .... | 5-5-46 | 15-9-48 | 150 | 14.0 | 3,345 | 5.52 | 184.56 | T. O. Abbott .... | Amaroo Winner |
| Murra Murra Silver Bell 2nd | do. | .... | 5-4-46 | 2-10-48 | 120 | 14.0 | 3,045 | 4.87 | 184.41 | Mrs .M. A. Crute .... | The Wold Northwood King (19138) |
| Claremont Biddy 90th .... | A.I.S. | .... | 27-5-46 | 21-8-48 | 273 | 14.5 | 4,498 | 4.09 | 184.02 | Claremont Hospital for Insane | Wooroloo Night Fighter (8884) |
| Narrogin Sybil .... .... | do. | .... | 13-3-46 | 16-4-48 | 240 | 13.0 | 4,440 | 4.14 | 183.78 | Narrogin School of Agriculture | Wooroloo Gay Gordon (8878) |
| Alne Bank Audrey 15th .... | do. | .... | 13-3-46 | 28-1-48 | 273 | 14.0 | 4,647 | 3.95 | 183.66 | G. W. Marston .... | Alne Bank Glen (6449) |
| Yalebra Goldilocks .... .... | Jersey | .... | 18-7-46 | 3-8-48 | 210 | 7.0 | 3,045 | 5.96 | 181.64 | K. V. Gray .... .... | Grass Vale Beau |
| Narrogin Diamante .... | A.I.S. | .... | 8-4-46 | 4-6-48 | 210 | 18.0 | 4,830 | 3.76 | 181.59 | Narrogin School of Agriculture | Wooroloo Gay Gordon (8878) |
| Lenmoor's Nancy 4th .... | do. | .... | 18-7-46 | 7-7-48 | 240 | 8.5 | 4,170 | 4.29 | 178.98 | G. W. Marston .... | Wooroloo Union Jack (7662) |
| Narrogin Marabelle .... .... | do. | .... | 11-3-46 | 26-5-48 | 210 | 17.0 | 4,140 | 4.26 | 176.43 | Narrogin School of Agriculture | Wooroloo Gay Gordon (8878) |
| Claremont Pinafore 22nd .... | A.I.S. | .... | 29-3-46 | 29-9-48 | 273 | 14.5 | 5,173 | 3.40 | 176.09 | Claremont Hospital for Insane | Capel Monarch (7898) |
| Narrogin Coquette .... .... | do. | .... | 11-3-46 | 26-1-48 | 273 | 6.0 | 4,388 | 4.01 | 176.05 | Narrogin School of Agriculture | Wooroloo Gay Gordon (8878) |
| Narrogin Mayflower .... | do. | .... | 30-3-46 | 27-5-48 | 210 | 14.0 | 2,930 | 4.35 | 171.06 | do. do. | do. do. do. |
| Lenmoor's Joan 4th .... | do. | .... | 26-2-46 | 21-7-48 | 150 | 13.0 | 4,275 | 3.99 | 170.70 | G. W. Marston .... | Wooroloo Union Jack (7662) |

TABLE 8—PURE BRED HERD TESTING—*continued.*

Cows which completed test during the twelve months ended 30th June, 1949—*continued.*

| Name of Cow. | Breed. | Herd Book No. | Date of Birth. | Date of Entry to Test. | No. of Days in Test. | Weight of Milk on Last Day of Test. lb. | Weight of Milk for Period. lb. | Average Test. % | Weight of Butter Fat for Period. lb. | Owner. | Sire. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **COWS UNDER 2½ YEARS OLD—STANDARD 230 LB. BUTTER-FAT—*continued.*** | | | | | | | | | | | |
| Rutherwood Dinah 2nd | Guernsey | .... | 11-5-46 | 26-8-48 | 210 | 11.0 | 3,810 | 4.48 | 170.64 | G. Brenton .... .... | Denmark Robin Hood |
| Benger Alice .... .... | A.I.S. | .... | 4-9-46 | 23-7-48 | 240 | 6.0 | 4.050 | 4.17 | 168.93 | W. K. Barnes .... | Carbunnup Governor (9139) |
| Claremont Star 39th | do. | .... | 15-5-46 | 12-8-48 | 150 | 18.0 | 4,320 | 3.83 | 165.54 | Claremont Hospital for Insane | Wooroloo Night Fighter (8884) |
| Rutherwood Dame 2nd .... | Guernsey | .... | 9 5 47 | 3-9-48 | 210 | 10.0 | 3,630 | 4.55 | 165.33 | G. Brenton .... .... | Koojan Ace's Sunshade (5942) |
| Murra Murra Royal Lady 2nd | Jersey | .... | 4-7-46 | 23-8-48 | 150 | 13.0 | 3,135 | 5.21 | 163.38 | Mrs. M. A Crute ... | The Wold Northwood King (19138) |
| Chelsea Blonde .... .... | Guernsey | .... | 26-4 46 | 6-10-48 | 180 | 10.0 | 3,135 | 5.14 | 161.31 | W. D. Patmore .... | Denmark Briar's Reflection (5745) |
| Chelsea Velvet .... .... | do. | .... | 29-6-46 | 29-6-48 | 180 | 12.5 | 3,450 | 4.59 | 158.49 | do. do. .... | do. do. do. |
| Durrimba Gwenny .... .... | Jersey | .... | 16-8-46 | 15-8-48 | 120 | 26.0 | 3,360 | 4.46 | 150.03 | F. Campbell .... .... | Grantham Airman |
| Narrogin Flirt .... .... | A.I.S. | .... | 5-6-46 | 2 6-48 | 210 | 8.0 | 3,840 | 3.91 | 150.03 | Narrogin School of Agriculture | Wooroloo Gay Gordon (8878) |
| Tipperary Lovely 12th .... | do. | 54212 | 19-3-46 | 25-8-48 | 210 | 12.0 | 3,510 | 4.28 | 149.55 | W. G. Burges .... | Glanavon Trevor |
| Mayvale Ideal's Bluebell .... | Guernsey | 16050 | 31-7-46 | 21-12-48 | 150 | 11.0 | 3,165 | 4.63 | 146.58 | R. J. Giles .... .... | Koojan Ideal's Discoverer (4968) |
| Murra Murra Marinora .... | Jersey | .... | 19-4-46 | 16-9-48 | 120 | 17.5 | 3,180 | 4.56 | 145.02 | Mrs. M. A. Crute .... | The Wold Northwood King (19138) |
| Camden Lorelei .... .... | do. | .... | 22-9-46 | 30-6-48 | 240 | 8.0 | 2,775 | 5.02 | 139.29 | K. V. Gray .... .... | Greenmount Starbright (20748) |
| Tipperary Peggy 4th .... | A.I.S. | .... | 30-11-45 | 27 5-48 | 210 | 7.0 | 3,570 | 3.88 | 138.60 | W. G. Burges .... | Tipperary Ace (6336) |
| Lenmoor's Queen 6th .... | do. | .... | 20-2-46 | 1 3-48 | 273 | 6.5 | 3,660 | 3.76 | 137.94 | G. W. Marston .... | Wooroloo Union Jack (7662) |
| Yalebra Queen 3rd .... .... | Jersey | .... | 20-5-46 | 31-7-48 | 210 | 5.0 | 2,505 | 5.47 | 137.07 | K. V. Gray .... .... | Juadine Volunteer (20842) |
| Narrogin Cora .... .... | A.I.S. | .... | 22-5-46 | 20-2-48 | 240 | 8.0 | 3,480 | 3.91 | 136.05 | Narrogin School of Agriculture | Wooroloo Gay Gordon (8878) |
| Chillwell Marigold Dawn .... | Jersey | .... | 15 3-46 | 1-8-48 | 150 | 12.5 | 2,340 | 5.76 | 134.79 | Mrs. M. A. Watson .... | Travalgan Leader (958) |
| Glanavon Dahlia 34th .... | A.I.S. | 50501 | 27-5-46 | 14-2-48 | 180 | 16.0 | 3,210 | 4.06 | 130.50 | D. Bevan & Son .... | Blacklands Jean's Supreme (1871) |
| Lenmoor's Bluebell 2nd .... | do. | .... | 26-5-46 | 27-12-47 | 273 | 6.5 | 3,099 | 4.19 | 129.93 | G. W. Marston .... | Wooroloo Union Jack (7662) |
| Doyson's Marigold .... .... | do. | .... | 1-7-46 | 1-8-48 | 150 | 10.5 | 3,105 | 3.99 | 124.08 | W. H. Doyle & Son .... | Capel Fairy King (9132) |
| Rosella Melody .... .... | Guernsey | .... | 12-6-46 | 7-10-48 | 120 | 14.5 | 2,310 | 5.16 | 119.31 | Darnell Bros. .... | Koojan Ace's Roosevelt (7439) |
| Rutherwood Fairy 2nd .... | do. | 16427 | 28-2-46 | 25-8-48 | 273 | 6.0 | 2,408 | 4.91 | 118.37 | Misses E. & I. Rutherford | Koojan Ace's Sunshade (5942) |
| Woodford Dairymaid .. | do. | 16749 | 10-8-46 | 7-4-48 | 210 | 6.0 | 2,430 | 4.79 | 116.46 | W. R. Ferry .... | Brookfields Belief (6820) |
| Travalgan Lady Eion 35th .. | Jersey | .... | 17-6-46 | 16-8-48 | 90 | 24.0 | 2,190 | 5.18 | 113.55 | W.H.& T.F. Robinson | MornmootLaver (17792) |
| Claremont Treasure 54th .... | A.I.S. | .... | 24-6-46 | 28-8-48 | 150 | 14.0 | 2,880 | 3.88 | 112.02 | Claremont Hospital for Insane | Capel Monarch (7898) |
| Tipperary Pearl .... .... | do. | .... | 27-9-46 | 3-9-48 | 180 | 14.5 | 3,090 | 5.38 | 110.82 | K. Prowse .... .... | Glanavon Povey (8114) |
| Woodford Heather .... .... | Guernsey | 16751 | 21-7-46 | 7-6-48 | 150 | 10.0 | 2,490 | 4.09 | 101.94 | W. R. Ferry .... | Brookfield's Belief (6820) |
| Chelsea Jessica .... .... | do. | .... | 1-5-46 | 20-6-48 | 150 | 6.5 | 1,755 | 5.62 | 98.64 | W. D. Patmore .... | Denmark Briar's Reflection (5745) |
| Claremont Poppy 45th .... | A.I.S. | .... | 22-1-46 | 27-4-48 | 90 | 25.0 | 2,490 | 3.50 | 87.36 | Claremont Hospital for Insane | Westby Monarch (5404) |
| Rosella Perfume .... .... | Guernsey | .... | 8-8-46 | 23-5-48 | 150 | 9.0 | 1,785 | 4.81 | 85.86 | Darnell Bros..... .... | Koojan Ace's Roosevelt (7439) |
| Chelsea Rosita .... .... | do. | .... | 30-4-46 | 13-8-48 | 120 | 5.0 | 1,665 | 5.00 | 83.79 | W. D. Patmore .... | Denmark Briar's Reflection (6745) |
| Congelin Iolanthe 4th .... | Jersey | .... | 14-8-46 | 4-7-48 | 90 | 17.0 | 1,770 | 4.38 | 77.61 | D. Bradford .... .. | Grass Vale Twylish Lad (21816) |
| Wattleshill Margaret .... .... | A.I.S. | .... | 10-4-47 | 17-1-49 | 120 | 14.0 | 2,025 | 3.75 | 75.99 | K. Prowse .... .... | Capel Cinderella King (7892) |
| Durrimba Graceful .... .... | Jersey | .... | 22-7-46 | 6-11-48 | 60 | 18.5 | 1,080 | 6.39 | 69.00 | F. Campbell .... .... | Grantham Airman 5th |
| Rosella Glory .... .... | Guernsey | .... | 24-5-46 | 1-3-48 | 150 | 8.5 | 1,275 | 5.01 | 63.90 | Darnell Bros..... .... | Koojan Ace's Roosevelt (7439) |
| Juadine Peerless Lily 28th.... | Jersey | .... | 27-10-46 | 8-12-48 | 90 | 6.5 | 1,035 | 5.57 | 57.66 | C. E. Jackson .... | Windrest Star's Aim 2nd (1017) |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Woodford Mignonette .... | Guernsey | 16753 | 21–6–46 | 17–6–48 | 30 | 30.0 | 900 | 5.96 | 53.64 | W. R. Ferry .... | Brookfield's Belief (6820) |
| Woodford Tiny .... .... | do. | 16755 | 19–9–46 | 30–6–48 | 120 | 5.0 | 1,050 | 3.80 | 39.90 | do. .... .... | do. do. do. |
| Rosella Damsel .... .... | do. | .... | 6–10–46 | 1–10–48 | 90 | 11.0 | 1,200 | 3.23 | 38.73 | Darnell Bros. .... | Koojan Ace's Roosevelt (7439) |
| Doyson's Beauty 2nd .... | A.I.S. | .... | 1 4–46 | 19–6–48 | 60 | 13.5 | 975 | 3.90 | 38.10 | W. H. Doyle & Son .... | Wooroloo Noble 4th (6411) |
| Shepstone Signature .... | Jersey | .... | 1–11–46 | 20–1–49 | 60 | 10.0 | 720 | 4.33 | 31.20 | Radford Park Co. .... | Shepstone Royal Reserve (20155) |
| Claremont Beanie 17th .... | A.I.S. | .... | 14–1–47 | 16–4–49 | 30 | 25.0 | 750 | 3.16 | 23.70 | Claremont Hospital for Insane | Wooroloo Night Fighter (8884) |
| COWS 2½ YEARS AND UNDER 3 YEARS—STANDARD 250 LB. BUTTER-FAT. | | | | | | | | | | | |
| Carydale Royal Princess .... | Jersey | .... | 26–6–45 | 3–4–48 | 273 | 36.5 | 9,769 | 5.43 | 530.57 | G. Layman .... .... | Juadine Royal (20841) |
| Colmyn Jewel .... .... | do. | .... | 2–9–45 | 8–7–48 | 273 | 18.0 | 7,644 | 5.95 | 454.85 | C. H. Ironmonger .... | Eungella Prince Starbright (19538) |
| Trelawney Lightly .... .... | do. | .... | 26–7–45 | 11–3–48 | 273 | 22.0 | 6,811 | 5.71 | 389.18 | J. C. Bushell .... | Greenmount Golden Patch (19603) |
| Eungella Little Gem .... | do. | .... | 22 5–45 | 12–5–48 | 273 | 14.0 | 6,627 | 5.72 | 379.03 | D. G. Spark .... .... | Hopelands Marinora's Star (20814) |
| Koojan Ace's Janet .... .... | Guernsey | 13494 | 3–11–44 | 6 11–47 | 273 | 25.0 | 7,480 | 5.04 | 377.40 | A. W. Padbury .... | Homestead Ace (Imp.) (1631) |
| Eungella Jessamine .... .... | Jersey | .... | 12–5–45 | 13–5–48 | 273 | 14.0 | 6,837 | 5.48 | 374.97 | D. G. Spark .... .... | Hopelands Marinora's Star (20814) |
| Denmark Valencia's Image .... | Guernsey | 12707 | 17 2–45 | 23–1–48 | 273 | 19.0 | 5,832 | 6.36 | 371.02 | Denmark Research Station | Koojan Ideal's Reflection (4974) |
| Ardersia Snow Queen .... | Jersey | .... | 19–7–45 | 17–6–48 | 273 | 16.0 | 5,913 | 6.19 | 366.22 | T. M. Smith .... .... | Orphanage Douglas (18919) |
| Capel Daphne's Pet 2nd .... | A.I.S. | .... | 13–9–45 | 8–5–48 | 273 | 22.0 | 10,401 | 3.42 | 355.79 | J. H. Bensted & Co. .... | Capel Star King (4672) |
| Claremont Whitby Maid 65th | do. | .... | 25–11–45 | 8–7–48 | 273 | 25.5 | 9,016 | 3.89 | 351.49 | Claremont Hospital for Insane | Glanavon Dunster (6867) |
| Eungella Pepita .... .... | Jersey | .... | 28–6–45 | 16–5–48 | 273 | 12.0 | 5,796 | 6.03 | 349.39 | D. G. Spark .... .... | Hopelands Marinora's Star (20814) |
| Narrogin Collette .... .... | A.I.S. | .... | 17–3–45 | 1–12–47 | 273 | 26.0 | 8,442 | 4.13 | 348.84 | Narrogin School of Agriculture | Tipperary Amy's Mascot (6338) |
| Kapara Jolly Handsome 2nd | Jersey | .... | 7–7–45 | 4–5–48 | 273 | 10.0 | 6,060 | 5.65 | 342.51 | D. Bradford .... .... | Congelin Washington (18426) |
| Carydale Royal Dainty .... | do. | .... | 7–7–45 | 19–5–48 | 240 | 17.0 | 6,015 | 5.67 | 341.25 | G. Layman .... .... | Juadine Royal (20841) |
| Kapara Sweet Briar .... | do. | 2205 | 22–6–45 | 24–5–48 | 273 | 14.0 | 6,582 | 5.11 | 336.26 | D. Bradford .... .... | Congelin Mandarin (14542) |
| Drakesbrook Queen Ann .... | Guernsey | 15667 | 29 8–45 | 2–7–48 | 273 | 19.5 | 6,793 | 4.93 | 334.62 | J. R. Giles .... .... | Koojan Ace's Aviator (59300) |
| Mokine Empire's Lily 45th .... | Jersey | .... | 16–8–45 | 3–6–48 | 273 | 20.0 | 6,090 | 5.47 | 332.91 | T. H. Wilding .... | Mokine Reserve (21017) |
| Travalgan Starbright 30th.... | do. | .... | 8–6–45 | 31–5–48 | 273 | 10.0 | 5,916 | 5.57 | 329.35 | W. H. & T. F. Robinson | Mornmoot Laver (17792) |
| Amaroo Marion .... .... | do. | 4576 | 1–5–45 | 15–4–48 | 273 | 13.0 | 6,129 | 5.36 | 328.80 | T. O. Abbott .... | Eungella Golden Starbright (20666) |
| Wattlehill Patchy .... .... | A.I.S. | .... | 25–6–45 | 13–5–48 | 273 | 17.0 | 8,931 | 3.66 | 326.98 | K. Prowse .... .... | Wallatin Ninety Six (7607) |
| Eungella Miss Marinora .... | Jersey | .... | 15–6–45 | 11–5–48 | 273 | 11.5 | 5,884 | 5.50 | 324.11 | D. G. Spark .... .... | Hopelands Marinora's Star (20814) |
| Ardersia Primrose .... .... | do. | .... | 29–7–45 | 12–5–48 | 273 | 13.5 | 4,975 | 6.35 | 316.07 | T. M. Smith .... .... | Ardersia Northern King (20338) |
| River Glen Connie .... .... | A.I.S. | .... | 10–2–45 | 18–10–47 | 273 | 21.0 | 7,653 | 4.07 | 311.56 | M. H. Montgomery .... | River Glen Admiral 3rd (7353) |
| Yalebra Roma .... .... | Jersey | .... | 19–7–45 | 20–5–48 | 273 | 6.5 | 5,194 | 5.81 | 301.65 | K. V. Gray .... .... | Greenmount Golden Patch (19603) |
| Grass Vale Design's Magnolia | do. | 1678 | 5–11–44 | 8–9–47 | 240 | 5.0 | 5,535 | 5.37 | 297.75 | R. H. Rose & Son .... | Mornmoot Northwood Beau (17798) |
| River Glen Vision 2nd .... | A.I.S. | .... | 18 9–45 | 17–8–48 | 273 | 14.5 | 6,825 | 4.27 | 291.67 | M. H. Montgomery .... | River Glen Limelight (3479) |
| Amaroo Charming Bell .... | Jersey | .... | 7 5–45 | 22–4–48 | 273 | 11.0 | 5,523 | 5.10 | 281.87 | T. O. Abbott .... .... | Eungella Golden Starbright (20666) |
| Glanavon Rhona .... .... | A.I.S. | 50518 | 26–3–45 | 14–11–47 | 273 | 14.0 | 5,922 | 4.71 | 279.14 | D. Bevan & Son .... | Glanavon Lord (8109) |
| Travalgan Starbright 32nd .... | Jersey | .... | 13–7–45 | 9–6–48 | 273 | 7.0 | 4,911 | 5.66 | 277.85 | W. H. & T. F. Robinson | Mornmoot Laver (17792) |
| Wallatin Violet .... .... | A.I.S. | .... | 12–7–45 | 17–6–48 | 273 | 18.5 | 7,765 | 3.57 | 276 99 | K. Prowse .... .... | Capel Cinderella King 2nd (7892) |
| Grass Vale Nora's Beauty .... | Jersey | .... | 31–7–45 | 27–7–48 | 273 | 5.5 | 4,681 | 5.91 | 276.94 | R. H. Rose & Son .... | Glen Iris Golden Oxford (12694) |
| Durrimba Temple Belle .... | do. | .... | 24–8–45 | 3–5–48 | 273 | 19.5 | 4,995 | 5.51 | 275.49 | F. Campbell .... .... | Radyr Park September Lad (14023) |
| Kiama Primrose 7th .... | A.I.S. | .... | 29 4–45 | 8–11–47 | 273 | 16.0 | 6,513 | 4.20 | 274.09 | M. H. Montgomery .... | Kiama Ronel (7079) |
| Carydale Royal Lady .... | Jersey | .... | 27 6–45 | 4–4–48 | 240 | 16.5 | 4,740 | 5.66 | 268.71 | G. Layman .... .... | Juadine Royal (20841) |
| Parkview Fussy 86th .... | A.I.S. | .... | 17–3–45 | 25–12–47 | 240 | 29.0 | 6,720 | 3.93 | 264.33 | D. Bevan & Sons .... | Parkview Rose's Design (8542) |
| Burlington Molly .... .... | Jersey | .... | 25–4–45 | 11–3–48 | 273 | 13.5 | 5,005 | 5.28 | 264.11 | Mrs. M. A. Watson .... | Burlington Sultan (21613) |
| Chillwell Model's Primrose.... | do. | .... | 24–8–45 | 26–5–48 | 273 | 12.0 | 4,266 | 5.99 | 255.93 | do. .... .... | Travalgan Leader (958) |
| Chillwell Julienne's Camelia | do. | .... | 27 8–45 | 27–5–48 | 273 | 13.0 | 4,629 | 5.49 | 254.11 | do. .... .... | do. do. |
| Claremont Maggie Morrison 74th | A.I.S. | .... | 1–1–46 | 9–7–48 | 273 | 19.0 | 6,822 | 3.72 | 253.91 | Claremont Hospital for Insane | Westby Masterpiece (5403) |
| Mayvale Ace's Dahlia .... | Guernsey | 13651 | 20–12–44 | 2–11–47 | 273 | 10.5 | 4,806 | 5.25 | 252.35 | R. J. Giles .... .... | Koojan Ace's Dauntless (5933) |

TABLE 8—PURE BRED HERD TESTING—*continued.*

Cows which completed test during the twelve months ended 30th June, 1949—*continued.*

| Name of Cow. | Breed. | Herd Book No. | Date of Birth. | Date of Entry to Test. | No. of Days in Test. | Weight of Milk on Last Day of Test. lb. | Weight of Milk for Period. lb. | Average Test. % | Weight of Butter Fat for Period. lb. | Owner. | Sire. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| COWS 2½ YEARS AND UNDER 3 YEARS—STANDARD 250 LB. BUTTER-FAT—*continued.* | | | | | | | | | | | |
| River Glen Clarabelle 73rd .... | A.I.S. | .... | 2–8–45 | 16–4–48 | 273 | 17.0 | 6,531 | 3.86 | 252.16 | M. H. Montgomery .... | River Glen Sparkler 3rd (5184) |
| Woodford Chosen .... .... | Guernsey | 16747 | 8–11–45 | 26–9–48 | 273 | 6.0 | 4,113 | 6.04 | 248.43 | W. R. Ferry .... | Brookfields Belief (6820) |
| Lenmoor's Maggie 2nd .... | A.I.S. | 51743 | 10–9–45 | 1–8–48 | 210 | 8.5 | 6,045 | 3.93 | 237.78 | G. W. Marston .... | Wooroloo Union Jack (7662) |
| Glanavon Thelma 9th .... | do. | .... | 6–3–45 | 25–9–47 | 273 | 12.0 | 5,406 | 4.30 | 232.48 | D. Bevan & Son .... | Glanavon Fairy's Triumph (8105) |
| Tipperary Milkmaid .... | do. | 54213 | 23–11–45 | 11–9–48 | 240 | 9.0 | 5,640 | 4.11 | 231.88 | W. G. Burges .... | Glanavon Povey (8114) |
| Wooroloo Red Dawn .... | do. | .... | 8–8–45 | 16–2–48 | 240 | 11.0 | 5,280 | 4.34 | 229.41 | Wooroloo Sanatorium Farm | Wooroloo Red Baron (6412) |
| Claremont Empress .... .... | do. | .... | 30–8–45 | 6–8–48 | 210 | 10.0 | 5,640 | 4.05 | 228.32 | W. K. Barnes .... | Capel Monarch (7898) |
| Chillwell Daffodil Victorious | Jersey | .... | 12–8–45 | 21–7–48 | 210 | 14.0 | 4,590 | 4.93 | 226.35 | Mrs. M. A. Watson .... | Burlington Sultan (21613) |
| Kapara Carnation .... .... | do. | .... | 7–6–45 | 7–5–48 | 273 | 13.0 | 4,449 | 5.08 | 226.03 | D. Bradford .... .... | Congelin Mandarin (14542) |
| Kiama Honeycombe 15th .... | A.I.S. | .... | 16–4–45 | 23–11–47 | 273 | 15.0 | 5,652 | 3.87 | 219.09 | M. H. Montgomery .... | Liberton Patriot 6th |
| Claremont Treasure 49th .... | do. | .... | 14–6–45 | 16–2–48 | 273 | 17.0 | 5,661 | 3.79 | 214.73 | Claremont Hospital for Insane | Glanavon Dunster (6867) |
| Glanavon Goldilocks 12th .... | do. | .... | 12–3–45 | 4–2–48 | 180 | 31.0 | 5,430 | 3.75 | 203.76 | D. Bevan & Sons .... | Glanavon Godfrey (8108) |
| Mereworth Easter Princess 5th | Jersey | .... | 15–8–45 | 18–3–48 | 240 | 14.5 | 3,645 | 5.22 | 190.17 | B. Langridge .... | Grantham Easter Marchalong (20736) |
| Doyson's Pansy .... .... | A.I.S. | .... | 18–5–45 | 15–4–48 | 240 | 15.5 | 4,350 | 4.25 | 185.07 | W. H. Doyle & Son .... | Windhill General (8857) |
| Doyson's Tiny .... .... | do. | .... | 18–5–45 | 25–1–48 | 273 | 7.0 | 4,521 | 3.88 | 176.40 | do. do. | do. do. |
| Mayvale Jewel .... .... | Guernsey | 16052 | 27–5–46 | 18–12–48 | 180 | 13.5 | 4,350 | 4.05 | 176.22 | R. J. Giles .... .... | Koojan Ace's Dauntless (5933) |
| Kapara Sparkles Lassie 4th .... | Jersey | .... | 12–7–45 | 31–5–48 | 150 | 20.0 | 3,570 | 4.89 | 175.71 | D. Bradford .... .... | Congelin Washington (18426) |
| Rosalind Joan .... .... | A.I.S. | .... | 14–12–45 | 6–7–48 | 210 | 7.0 | 5,025 | 3.48 | 175.32 | W. K. Barnes .... | Wattle Creek Prince Pantheon (8835) |
| Mereworth Wonderful Nancy | Jersey | .... | 29–8–45 | 5–3–48 | 273 | 9.0 | 3,477 | 5.00 | 174.04 | B. Langridge .... | Juadine Volunteer (20842) |
| Lenmoor's Roma 2nd .... | A.I.S. | .... | 11–10–45 | 30–4–48 | 180 | 10.0 | 4,470 | 3.77 | 168.36 | W. K. Barnes .... | Wooroloo Union Jack (7662) |
| Glanavon Rosette 8th .... | do. | .... | 24–7–45 | 6–3–48 | 150 | 24.0 | 3,840 | 4.27 | 163.98 | D. Bevan & Sons .... | Glanavon Fairy's Triumph (8105) |
| Narrogin Mary .... .... | do. | 52495 | 31–3–45 | 29–2–48 | 273 | 9.0 | 4,302 | 3.72 | 160.27 | Narrogin School of Agriculture | Tipperary Amy's Mascot (6338) |
| Glanavon Ettie 10th .... | do. | 50502 | 21–6–45 | 24–5–48 | 90 | 37.0 | 3,690 | 4.11 | 151.74 | D. Bevan & Son .... | Glanavon Fairy's Triumph (8105) |
| Narrogin Mignon .... .... | do. | 52496 | 21–4–45 | 4–3–48 | 180 | 13.0 | 3,870 | 3.81 | 147.45 | Narrogin School of Agriculture | Tipperary Amy's Mascot (6338) |
| Narrogin Astrid .... .... | do. | 52477 | 2–6–45 | 28–2–48 | 150 | 11.0 | 4,050 | 3.37 | 136.74 | do. do. | Wooroloo Gay Gordon (8878) |
| Glanavon Daphne 11th .... | do. | .... | 26–8–45 | 26–5–48 | 90 | 32.0 | 3,300 | 3.18 | 125.76 | D. Bevan & Sons .... | Blacklands Jean's Supreme (1871) |
| Narrogin Marlene .... .... | do. | 52494 | 7–4–45 | 13–2–48 | 180 | 15.0 | 3,120 | 3.91 | 121.98 | Narrogin School of Agriculture | Wooroloo Gay Gordon (8878) |
| Kapara Iolanthe 3rd .... | Jersey | .... | 7–7–45 | 11–4–48 | 90 | 21.0 | 2,220 | 5.12 | 113.88 | D. Bradford .... .... | Congelin Mandarin (14542) |
| Juadine March Flower 4th .... | do. | .... | 16–10–45 | 26–9–48 | 90 | 11.0 | 2,550 | 4.08 | 104.16 | C. E. Jackson .... | Juadine Volunteer (20842) |
| Kapara Rosebud 3rd .... | do. | .... | 2–8–45 | 25–5–48 | 120 | 8.0 | 1,890 | 5.40 | 102.18 | D. Bradford .... .... | Grassvale Twylish Lad (21816) |
| Koojan Ace's Secret .... | Guernsey | 15880 | 14–10–45 | 21–7–48 | 90 | 23.5 | 1,875 | 5.03 | 94.29 | R. J. Giles .... .... | Homestead Ace (Imp.) (1631) |
| Narrogin Dolores .... .... | A.I.S. | 52486 | 12–5–45 | 11–3–48 | 120 | 16.0 | 2,280 | 3.88 | 88.62 | Narrogin School of Agriculture | Wooroloo Gay Gordon (8878) |
| Glanavon Esmeralda 5th .... | do. | .... | 11–9–45 | 29–5–48 | 60 | 34.0 | 2,100 | 3.97 | 83.49 | D. Bevan & Sons .... | Glanavon Lord (8109) |
| Kapara Happy Days 3rd .... | Jersey | .... | 9–7–45 | 14–6–48 | 60 | 26.0 | 1,680 | 4.80 | 80.70 | D. Bradford .... .... | Congelin Mandarin (14542) |
| Doyson's Fairy .... .... | A.I.S. | .... | 20–8–45 | 7–4–48 | 120 | 9.0 | 1,635 | 4.57 | 74.76 | W. H. Doyle & Son .... | Windhill General (8857) |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Claremont Cleggett 32nd .... | A.I.S. | .... | 14–6–46 | 18–2–49 | 90 | 16.5 | 1,680 | 3.70 | 62.16 | Claremont Hospital for Insane | Capel Monarch (6898) |
| Glanavon Spangle 4th .... | do. | .... | 13–8–45 | 24–7–48 | 30 | 37.0 | 1,110 | 4.52 | 50.22 | D. Bevan & Sons .... | Glanavon Fairy's Triumph (810 5) |
| Claremont Whitby Maid 66th | do. | .... | 27–8–46 | 9–3–49 | 60 | 17.5 | 1,230 | 3.49 | 42.99 | Claremont Hospital for Insane | Westby Masterpiece (5403) |
| Mereworth Easter Princess 7th | Jersey | .... | 15–7–46 | 8–3–49 | 30 | 22.0 | 660 | 4.80 | 31.68 | B. Langridge .... | Grantham Easter Marchalong (20736) |
| COWS 3 YEARS AND UNDER 3½ YEARS STANDARD 270 LB. BUTTER-FAT.— | | | | | | | | | | | |
| Carydale Royal Queen .... | Jersey | .... | 25–3–45 | 3–5–48 | 273 | 30.5 | 10,261 | 5.75 | 590.29 | G. Layman .... .... | Juadine Royal (20841) |
| Denmark Aristocrat's Valencia | Guernsey | 12674 | 1–6–45 | 17–6–48 | 273 | 24.0 | 9,462 | 5.14 | 486.70 | Denmark Research Station | Denmark Ace's Aristocrat (5740) |
| Muresk Lady Ideal .... .... | do. | 13940 | 12–2–45 | 17–8–48 | 273 | 22.0 | 8,406 | 5.35 | 449.93 | Muresk Agricultural College | Koojan Ideal's Dictator (4167) |
| Muresk Dora .... .... | do. | 13928 | 26–8–44 | 29–1–48 | 273 | 30.0 | 9,032 | 4.88 | 441.61 | do. do. | Koojan Ace's Warspite (5943) |
| Eungella Crystal Lily .... | Jersey | .... | 4–4–45 | 6–8–48 | 273 | 13.5 | 7,300 | 5.78 | 422.28 | D. G. Spark .... .... | Hopeland Marinora's Star (20814) |
| Ardersia Wyandotte's Pride | do. | .... | 17–4–45 | 8–5–48 | 273 | 18.0 | 6,354 | 6.52 | 414.41 | T. M. Smith .... .... | Orphanage Cuba (17913) |
| Travalgan Lady Eion 27th | do. | .... | 29–4–45 | 11–7–48 | 273 | 14.0 | 7,002 | 5.87 | 411.06 | W. H. & T. F. Robinson | Mornmoot Laver (17792) |
| Korilya Andrea .... .... | Guernsey | 13518 | 14–6–45 | 28–9–48 | 273 | 25.5 | 8,101 | 4.99 | 404.61 | J. R. Giles .... .... | Koojan Beau Ideal (4965) |
| Montaro Princess .... .... | A.I.S. | 52256 | 30–6–44 | 20–11–47 | 273 | 28.0 | 10,074 | 3.96 | 399.70 | M. H. Montgomery .... | Glanavon Tudor (8123) |
| Grass Vale Lady Fowler 46th | Jersey | .... | 15–5–45 | 16–8–48 | 273 | 17.0 | 6,621 | 5.89 | 390.42 | R. H. Rose & Son .... | Glen Iris Golden Oxford (12694) |
| Koojan Ace's Jennie .... | Guernsey | 13495 | 3–11–44 | 29–12–47 | 273 | 25.0 | 7,575 | 5.08 | 385.28 | A. W. Padbury .... | Homestead Ace (Imp.) (1631) |
| Ardersia Starlight Lady .... | Jersey | .... | 6–7–45 | 10–8–48 | 273 | 12.5 | 5,767 | 6.62 | 381.91 | T. M. Smith .... .... | Orphanage Cuba (17913) |
| Wattlehill Cinderella .... | A.I.S. | .... | 12–4–45 | 18–8–48 | 273 | 12.0 | 10,896 | 3.48 | 379.60 | K. Prowse .... .... | Capel Cinderella King 2nd (7892) |
| Grass Vale Silvermine 4th .... | Jersey | 1689 | 29–9–44 | 28–10–47 | 240 | 9.5 | 6,750 | 5.61 | 379.20 | R. H. Rose & Son .... | Mornmoot Northwood Beau (17798) |
| Tipperary Beauty 21st .... | A.I.S. | 54202 | 1–10–44 | 16–10–47 | 273 | 19.0 | 7,392 | 5.06 | 374.07 | M. H. Montgomery .... | Liberton Venturer 2nd (7132) |
| Carydale Royal Primrose .... | Jersey | .... | 24–3–45 | 5–6–48 | 240 | 18.0 | 6,525 | 5.69 | 371.25 | G. Layman .... .... | Juadine Royal (20841) |
| Eungella Marlene .... .... | do. | .... | 1–4–45 | 30–6–48 | 273 | 12.0 | 7,635 | 4.86 | 371.09 | D. G. Spark .... .... | Hopeland Marinora's Star (20814) |
| Walgett Easter Tulip .... | do. | .... | 8–4–45 | 10–5–48 | 273 | 18.0 | 7,269 | 5.05 | 366.14 | C. J. Cunningham .... | Selsey Wyandotte's Prince (18058) |
| Wooroloo Heatherbell 3rd .... | A.I.S. | 48110 | 5–10–44 | 26–2–48 | 273 | 16.0 | 7,728 | 4.67 | 360.95 | Wooroloo Sanatorium Farm | Berry Rufus 2nd (6570) |
| Muresk Fay .... .... .... | Guernsey | 13929 | 20–5–45 | 22–7–48 | 273 | 12.0 | 7,056 | 5.02 | 354.03 | Muresk Agricultural College | Koojan Ace's Warspite (5943) |
| Casterton Bonnie Lady .... | do. | 12588 | 19–7–44 | 8–12–47 | 273 | 25.0 | 7,320 | 4.81 | 352.68 | J. R. Giles .... .... | Casterton Sunshine (5702) |
| Wattlehill May Day .... | A.I.S. | .... | 1–5–45 | 31–5–48 | 273 | 29.0 | 10,362 | 3.30 | 342.50 | K. Prowse .... .... | Wallatin Ninety-six (7607) |
| Grass Vale Buttercup 18th .... | Jersey | 1677 | 5–11–44 | 20–4–48 | 240 | 18.0 | 6,615 | 5.17 | 341.93 | R. H. Rose & Son .... | Mornmoot Northwood Beau (17798) |
| Muresk Dignity .... .... | Guernsey | 13925 | 17–9–44 | 22–11–47 | 273 | 20.0 | 6,960 | 4.89 | 340.30 | Muresk Agricultural College | Koojan Ideal's Dictator (4167) |
| Walgett Tuberose .... .... | Jersey | .... | 17–4–45 | 24–5–48 | 273 | 16.5 | 5,824 | 5.81 | 338.38 | C. J. Cunningham .... | Selsey Wyandotte's Prince (18058) |
| Travalgan Lady Eion 29th .... | do. | .... | 19–5–45 | 8–10–48 | 273 | 10.0 | 5,160 | 6.53 | 337.12 | W. H. & T. F. Robinson | Mornmoot Laver (17792) |
| Juadine Peerless Lily 27th | do. | .... | 15–5–45 | 17–10–48 | 273 | 12.0 | 5,361 | 6.01 | 328.96 | B. Langridge .... | Juadine Northwood Beau (19670) |
| Rosella Twilight .... .... | Guernsey | 14412 | 5–6–45 | 25–7–48 | 210 | 14.5 | 6,165 | 5.18 | 319.43 | Darnell Bros. .... | Cranbourne Charlie (3993) |
| Denmark Standard's Dawn .... | do. | 12704 | 23–9–44 | 24–3–48 | 273 | 15.0 | 5,445 | 5.85 | 318.33 | Denmark Research Station | Denmark Valencia's Standard (5767) |
| Mayvale Ace's Buttercup .... | do. | 13649 | 3–9–44 | 6–3–48 | 273 | 19.5 | 5,428 | 5.86 | 318.08 | R. J. Giles .... .... | Koojan Ace's Dauntless (5933) |
| Muresk Adeline .... .... | do. | 13919 | 7–9–44 | 8–12–47 | 273 | 20.0 | 7,230 | 4.33 | 317.91 | Muresk Agricultural College | Koojan Ace's Warspite (5943) |
| Chillwell Zena's Daphne .... | Jersey | .... | 1–8–45 | 19–9–48 | 273 | 8.0 | 5,304 | 5.97 | 316.63 | Mrs. M. A. Watson .... | Travalgan Leader (958) |
| Montaro Empress .... .... | A.I.S. | 52251 | 18–2–45 | 14–5–48 | 273 | 15.5 | 7,081 | 4.29 | 303.64 | J. H. Bensted & Co. | Glanavon Tudor (8123) |
| Wooroloo Violet .... .... | do. | 54754 | 12–5–45 | 25–8–48 | 240 | 9.0 | 7,290 | 4.16 | 303.36 | Wooroloo Sanatorium Farm | Wooroloo Red Baron (6412) |
| Wooroloo Wynette 3rd .... | do. | .... | 15–9–44 | 29–2–48 | 273 | 19.0 | 6,747 | 4.47 | 302.09 | do. do. | Glanavon Fusilier (8106) |
| Wooroloo Golden Dawn 2nd | do. | 54723 | 10–3–45 | 19–4–48 | 273 | 18.0 | 7,134 | 4.20 | 299.88 | do. do. | Wooroloo Red Baron (6412) |
| Claremont Treasure 47th .... | do. | 49660 | 8–6–45 | 19–9–48 | 273 | 24.5 | 7,888 | 3.63 | 286.34 | Claremont Hospital for Insane | Westby Monarch (5404) |

TABLE 8—PURE BRED HERD TESTING—*continued.*

Cows which completed test during the twelve months ended 30th June, 1949—*continued.*

| Name of Cow. | Breed. | Herd Book No. | Date of Birth. | Date of Entry to Test. | No. of Days in Test. | Weight of Milk on Last Day of Test. lb. | Weight of Milk for Period. lb. | Average Test. % | Weight of Butter Fat for Period. lb. | Owner. | Sire. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| COWS 3 YEARS AND UNDER 3½ YEARS—STANDARD 270 LB. BUTTER-FAT—*continued.* | | | | | | | | | | | |
| Clovelly Golden Pearl | Guernsey | 12607 | 20-5-44 | 16-10-47 | 240 | 10.5 | 4,800 | 5.84 | 280.56 | J. R. Cabassi | Lansdowne Polydymite (4955) |
| Rosella Poppy | do. | 14405 | 14-1-45 | 14-5-48 | 273 | 12.0 | 5,211 | 5.37 | 279.96 | Darnell Bros. | Cranbourne Charlie (3993) |
| Tipperary Beauty 20th | A.I.S. | 54201 | 3-8-44 | 20-11-47 | 273 | 16.0 | 6,738 | 4.14 | 279.40 | M. H. Montgomery | Liberton Venturer 2nd (7132) |
| Kapara Peerless Lily | Jersey | .... | 31-3-45 | 4-5-48 | 273 | 14.0 | 5,592 | 4.98 | 278.61 | D. Bradford | Congelin Mandarin (14542) |
| Murra Murra Silver Lady | do. | .. | 21-4-45 | 31-5-48 | 240 | 8.5 | 5,550 | 4.98 | 276.42 | Mrs. M. A. Crute | The Wolds Northwood King (19138) |
| Radyr Park Dorothy 32nd | do. | .. | 1-5-45 | 15-9-48 | 273 | 7.0 | 5,046 | 5.32 | 268.33 | L. M. Temple | Radyr Park Estrellita 2nd's Starlight (21187) |
| Radyr Park Dorothy 26th | do. | .... | 11-6-44 | 9-10-47 | 273 | 5.0 | 4,965 | 5.38 | 267.19 | do. | do. |
| Walgett Golden Dawn | do. | .... | 8-4-45 | 12-5-48 | 273 | 9.5 | 4,678 | 5.60 | 261.89 | C. J. Cunningham | Selsey Wyandotte's Prince (18058) |
| Claremont Cherry 44th | A.I.S. | 49601 | 4-5-45 | 19-9-48 | 273 | 15.5 | 6,796 | 3.85 | 261.87 | Claremont Hospital for Insane | Westby Monarch (5404) |
| Tipperary Lovely 10th | do. | 54210 | 15-11-44 | 4-2-48 | 273 | 7.0 | 6,666 | 3.88 | 258.99 | W. G. Burges | Liberton Venturer 2nd (7132) |
| Denmark Rosemary 2nd | Guernsey | 12702 | 14-10-44 | 24-12-47 | 180 | 22.0 | 3,885 | 6.63 | 257.43 | Denmark Research Station | Koojan Ideal's Reflection (4974) |
| Clovelly Rougette | do. | 12618 | 18-5-45 | 12-6-48 | 273 | 9.0 | 4,557 | 5.58 | 254.44 | J. Cabassi | Denmark Rosa's Ace (5760) |
| Korijekup Lilian | Jersey | .... | 3-6-45 | 27-8-48 | 210 | 10.0 | 3,930 | 6.46 | 254.04 | A. G. Eckersley | Navua Royal Star (15869) |
| Wattlehill Grace | A.I.S. | .. | 21-4-45 | 29-5-48 | 273 | 16.5 | 6,739 | 3.77 | 253.91 | K. Prowse | Capel Cinderella King 2nd (7892) |
| Claremont Poppy 43rd | do. | 49650 | 3-6-45 | 26-8-48 | 273 | 15.0 | 6,255 | 3.99 | 249.78 | Wooroloo Sanatorium Farm | Glanavon Dunster (6867) |
| Glanavon Dahlia 24th | do. | .... | 4-8-44 | 5-10-47 | 273 | 18.0 | 6,264 | 3.97 | 249.10 | D. Bevan & Sons | Glanavon Lord (8109) |
| Rutherwood Annette | Guernsey | 14481 | 15-4-45 | 13-9-48 | 273 | 10.5 | 4,171 | 5.90 | 246.13 | Misses E. & T. Rutherford | Koojan Ace's Sunshade (5942) |
| Mayvale Ideal's Daisy | do. | 13665 | 29-7-44 | 25-10-47 | 273 | 15.5 | 5,551 | 4.33 | 240.87 | R. J. Giles | Koojan Ideal's Discoverer (4968) |
| Montaro Kitty | A.I.S. | 52254 | 19-9-44 | 10-11-47 | 273 | 7.0 | 5,181 | 4.59 | 237.84 | M. H. Montgomery | Glanavon Tudor (8123) |
| Glanavon Nancy 10th | do. | .... | 21-8-44 | 17-1-48 | 210 | 34.0 | 6,000 | 3.90 | 233.98 | D. Bevan & Sons | Glanavon Fairy's Triumph (8105) |
| Radyr Park October Star 3rd | Jersey | .... | 23-7-45 | 16-9-48 | 273 | 4.0 | 5,452 | 4.19 | 228.65 | L. M. Temple | Radyr Park Estrellita 2nd's Starlight (21187) |
| Amaroo Helena | do. | .... | 1-4-45 | 25-4-48 | 240 | 6.0 | 4,635 | 4.76 | 220.77 | T. O. Abbott | Eungella Golden Starbright (20666) |
| Radyr Park Estrella | do. | .... | 23-6-45 | 14-9-48 | 273 | 8.0 | 4,254 | 5.14 | 218.72 | L. M. Temple | Radyr Park Estrellita 2nd's Starlight (21187) |
| Doyson's Duchess | A.I.S. | .... | 21-4-45 | 2-7-48 | 180 | 22.5 | 4,765 | 4.47 | 212.85 | W. H. Doyle & Son | Windhill General (8857) |
| Glanavon Tiny 13th | do. | 50523 | 1-1-45 | 21-3-48 | 150 | 40.0 | 5,640 | 3.75 | 212.10 | D. Bevan & Sons | Blacklands Jean's Supreme (1871) |
| Yalebra Lady | Jersey | .... | 15-8-45 | 25-8-48 | 273 | 7.0 | 4,296 | 4.93 | 212.09 | K. V. Gray | Mokine Reserve (21017) |
| Glanavon Dahlia 25th | A.I.S. | .... | 5-9-44 | 12-10-47 | 273 | 5.0 | 4,665 | 4.33 | 202.39 | D. Bevan & Sons | Glanavon Fairy's Triumph (8105) |
| Juadine Queen 3rd | Jersey | .... | 27-1-45 | 15-2-48 | 273 | 7.0 | 3,225 | 6.20 | 200.07 | K. V. Gray | Juadine Volunteer (20842) |
| Grantham Air Lady 12th | do. | .... | 6-3-45 | 23-6-48 | 180 | 18.0 | 3,735 | 5.35 | 199.77 | A. Tomerini | Rosecliffe Marchalong (15094) |
| Radford Park Daisy | do. | .. | 28-5-45 | 23-6-48 | 210 | 4.0 | 3,450 | 5.39 | 185.94 | Radford Park Co. | Grass Vale Golden Lad (19599) |
| Doyson's Model | A.I.S. | . | 22-4-45 | 10-8-48 | 150 | 18.0 | 4,065 | 4.28 | 174.00 | W. H. Doyle & Son | Windhill General (8857) |
| Burlington Sweet Wonder | Jersey | .. | 21-8-44 | 27-1-48 | 273 | 11.5 | 3,214 | 5.38 | 173.09 | Davies & Son | Lawrenny Johnnie (16670) |
| Doyson's Beauty | A.I.S. | . | 8-4-45 | 3-7-48 | 180 | 13.0 | 3,930 | 4.15 | 163.02 | W. H. Doyle & Son | Windhill General (8857) |
| Travalgan Starbright 28th | Jersey | .... | 16-4-45 | 18-6-48 | 90 | 26.0 | 2,880 | 4.92 | 141.84 | W. H. & T. F. Robinson | Mornmoot Laver (17792) |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Claremont Cleggett 30th .... | A.I.S. | .... | 31-6-45 | 15-12-48 | 150 | 12.0 | 3,260 | 4.05 | 132.18 | Wooroloo Sanatorium Farm | Westby Masterpiece (5403) |
| Narrogin Dixie .... .... | do. | 52485 | 10-1-45 | 23-2-48 | 150 | 10.0 | 3,060 | 3.90 | 119.34 | Narrogin School of Agriculture | Tipperary Amy's Mascot (6338) |
| Wooroloo Claret .... .... | do. | 54716 | 3-5-45 | 25-8-48 | 90 | 29.0 | 2,700 | 4.33 | 117.06 | Wooroloo Sanatorium Farm | Berry Rufus 2nd (6570) |
| Kiama Bess 20th .... .... | do. | 51534 | 11 4-45 | 19-4-48 | 150 | 14.0 | 2,880 | 3.96 | 114.12 | M. H. Montgomery .... | Kiama Ronel (7079) |
| Grantham Easter Rye 16th | Jersey | ... | 16-6-45 | 6-9-48 | 120 | 17.5 | 2,625 | 4.16 | 109.20 | A. Tomerini .... .... | Rosecliffe Marchalong (15094) |
| Wooroloo Stella .... .... | A.I.S. | 54749 | 30-9-45 | 6-12-48 | 120 | 9.0 | 2,340 | 4 05 | 94.80 | Wooroloo Sanatorium Farm | Glanavon Fusilier (8106) |
| Radyr Park Dorothy 34th.... | Jersey | .... | 21-6-45 | 17-9-48 | 60 | 28.0 | 1,980 | 4.76 | 94.26 | L. M. Temple .... | Radyr Park Estrellita 2nd's Starlight (21187) |
| Claremont Maggie 25th .... | A.I.S. | ... | 9 8-45 | 6-10-48 | 60 | 28.5 | 1,935 | 3.73 | 72.20 | Claremont Hospital for Insane | Westby Monarch (5404) |
| Wooroloo Iris .... .. | do. | 54727 | 23-6-45 | 22-9 48 | 30 | 27.0 | 810 | 4.59 | 37.20 | Wooroloo Sanatorium Farm | Glanavon Fusilier (8106) |

COWS 3½ YEARS AND UNDER 4 YEARS—STANDARD 290 LBS. BUTTER-FAT.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Denmark Ace's Velvet .... | Guernsey | 12672 | 3-9-44 | 3-7-48 | 273 | 21.0 | 11,443 | 6.54 | 748.93 | Denmark Research Station | Denmark Ace (5738) |
| Grass Vale Buttercup 17th .... | Jersey | .... | 1-10-44 | 8-5-48 | 273 | 23.0 | 10,359 | 5.47 | 566.71 | R. H. Rose & Son ... | Mornmoot Northwood Beau (17798) |
| Denmark Ace's Dawn 3rd .... | Guernsey | 12671 | 22-10-44 | 12-7-48 | 240 | 12.0 | 8,445 | 5.39 | 455.52 | Denmark Research Station | Denmark Ace (5738) |
| Koojan Ace's Julianna .... | do. | 13500 | 20-2-44 | 9-10-47 | 273 | 20.0 | 7,740 | 5.52 | 427.85 | A. W. Padbury .... | Homestead Ace (Imp.) (1631) |
| Grassvale Northwood Maggie | Jersey | 1686 | 13-10-44 | 10-8-48 | 273 | 11.5 | 7,535 | 5.17 | 390.30 | R. H. Rose & Son .... | Mornmoot Northwood Beau (17798) |
| Muresk Diadem .... .... | Guernsey | 13924 | 7-5-44 | 2 2-48 | 273 | 24.0 | 7,032 | 5.54 | 389.96 | Muresk Agricultural College | Koojan Ace's Warspite (5943) |
| Juadine Peerless Lily 25th.... | Jersey | .... | 12 12 44 | 17-9-48 | 273 | 13.0 | 6,609 | 5.87 | 387.96 | C. E. Jackson .... | Juadine Northwood Beau (19670) |
| Grass Vale Silvermine 3rd .... | do. | 1688 | 15-10-43 | 28-9-47 | 240 | 12.5 | 6,795 | 5.56 | 378.18 | R. H. Rose & Son .... | Mornmoot Northwood Beau (17798) |
| Tipperary Beauty 22nd .... | A.I.S. | 54203 | 19-12-44 | 29-6-48 | 273 | 23.0 | 9,504 | 3.97 | 377.75 | W. G. Burges .... | Liberton Venturer 2nd (7132) |
| Tipperary Lovely 9th .... | do. | .... | 15-11-44 | 22-7-48 | 273 | 10.0 | 8.910 | 3.97 | 354.38 | W. G. Burges .... | do. do. do. |
| Kapara Rosebud 2nd .... | Jersey | 2201 | 28 5-44 | 5 5 48 | 273 | 8.0 | 5.869 | 6.01 | 352.40 | W. L. Bradford .... | Congelin Jolly Eminent 3rd (18420) |
| Muresk Waaf .... .... | Guernsey | 13951 | 17-4 44 | 26.11.47 | 273 | 18.0 | 7,194 | 4.81 | 346.46 | Muresk Agricultural College | Koojan Ideal's Dictator (4167) |
| Claremont Bell 44th ... | A.I.S. | 49576 | 3 1-45 | 11 9-48 | 273 | 18.5 | 7,930 | 4.23 | 335.55 | Claremont Hospital for Insane | Glanavon Dunster (6867) |
| Chillwell Zena's Buttercup ... | Jersey | .... | 14 8-44 | 8 3-48 | 273 | 19.0 | 6,117 | 5.48 | 335.05 | Mrs. M. A. Watson .... | Grass Vale Noramine's Beau (19600) |
| Kapara Duchess 2nd .... | do. | 2199 | 18-6-44 | 31-5-48 | 240 | 15.5 | 6,255 | 5.09 | 318.76 | W. L. Bradford .... | Congelin Jolly Eminent 3rd (18425) |
| Wooroloo Shirley 2nd .... | A.I.S. | 54747 | 22-10-44 | 28-4-48 | 273 | 19.0 | 7,737 | 4.12 | 318.56 | Wooroloo Sanatorium Farm | Wooroloo Red Baron (6412) |
| Mayvale Ideal's June .... | Guernsey | 13667 | 8-7-44 | 12-2-48 | 273 | 22.5 | 6,426 | 4.88 | 313.84 | R. J. Giles .... .... | Kooian Ideal's Discoverer (4968) |
| Grass Vale Golden Cream 27th | Jersey | 1680 | 26-9-44 | 25-4-48 | 240 | 9.5 | 6,765 | 4.62 | 312.66 | R. H. Rose & Son .... | Mornmoot Northwood Beau (17798) |
| Chillwell Godetia Gwen .... | do. | .... | 19-12-44 | 21-8-48 | 273 | 18.5 | 6,229 | 4.98 | 310.26 | Mrs. M. A. Watson .... | Grass Vale Noramine's Beau (19600) |
| Walgett Handsome Girl 37th | do. | .... | 18-4-44 | 11-4 48 | 273 | 16.5 | 5,539 | 5.59 | 309.49 | C. J. Cunningham .... | Selsey Wyandottes Prince (18058) |
| Claremont Star 36th .... | A.I.S. | 49652 | 26-12-44 | 28 9-48 | 273 | 24.5 | 8,398 | 3.68 | 308.96 | Claremont Hospital for Insane | Westby Masterpiece (5403) |
| Mayvale Ace's Dahlia .... | Guernsey | 13651 | 20-12-44 | 27-9-48 | 240 | 10.5 | 4,935 | 6.24 | 308.08 | R. J. Giles .... .... | Koojan Ace's Dauntless (5933) |
| Clovelly Blossom 2nd .... | do. | 12599 | 4-8-44 | 6-6-48 | 240 | 12.5 | 5,370 | 5.64 | 303.03 | J. Cabassi .... .... | Denmark Rosa's Ace (5760) |
| Claremont Treasure 44th .... | A.I.S. | 49658 | 21-2-44 | 13 11-47 | 273 | 26.0 | 7,683 | 3.80 | 292.63 | Claremont Hospital for Insane | Summerlea Churchill (6236) |
| Kapara Firefly 2nd .... | Jersey | 2200 | 5-8-44 | 5-6-48 | 240 | 13.5 | 6,375 | 4.53 | 288.75 | W. L. Bradford .... | Congelin Mandarin (14542) |
| Chillwell Models Mignonette | do. | .... | 5-8-44 | 4-8-48 | 240 | 13.0 | 5,265 | 5.33 | 280.65 | Mrs. M. A. Watson .... | Grass Vale Noramines Beau (19600) |
| Amaroo Winsome .... .... | do. | .... | 22-7-44 | 19-4-48 | 273 | 8.5 | 4,585 | 6.01 | 275.60 | T. O. Abbott .... | Greenmount Starbright (20748) |

TABLE 8—PURE BRED HERD TESTING—*continued.*

Cows which completed test during the twelve months ended 30th June, 1949—*continued.*

| Name of Cow. | Breed. | Herd Book No. | Date of Birth. | Date of Entry to Test. | No. of Days in Test. | Weight of Milk on Last Day of Test. lb. | Weight of Milk for Period. lb. | Average Test. % | Weight of Butter Fat for Period. lb. | Owner. | Sire. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **COWS 3½ YEARS AND UNDER 4 YEARS—STANDARD 290 LB. BUTTER-FAT.** | | | | | | | | | | | |
| Rosella Gloria | Guernsey | 14395 | 2-11-44 | 24-7-48 | 210 | 13·0 | 5,145 | 5·16 | 265·83 | Darnell Bros. | Cranbourne Charlie (3993) |
| Davyhurst Sally | A.I.S. | .... | 10-10-44 | 19-6-48 | 210 | 13·0 | 6,615 | 3·96 | 261·91 | W. H. Doyle & Son | Tipperary President (5335) |
| Kapara Sparkles' Lassie 3rd | Jersey | 2203 | 13-8-44 | 4-6-48 | 240 | 10·5 | 5,820 | 4·46 | 259·74 | W. L. Bradford | Congelin Jolly Eminent 3rd (18425) |
| Mereworth Dreaming Fondant | do. | .... | 31-5-44 | 16-5-48 | 273 | 8·5 | 5,050 | 5·12 | 258·59 | B. Langridge | Navua Coronation Star (14929) |
| Rosalind Janet 9th | A.I.S. | 53323 | 23-10-44 | 26-8-48 | 273 | 5·0 | 5,595 | 4·39 | 245·59 | W. K. Barnes | Wallatin Dandy (6370) |
| Mereworth Oxford Princess 3rd | Jersey | .... | 7-8-44 | 3-5-48 | 273 | 13·0 | 4,184 | 5·77 | 241·66 | B. Langridge | Navua Coronation Star (14929) |
| Chillwell Juliennes Lily | do. | .... | 2-9-44 | 8-4-48 | 273 | 12·0 | 4,536 | 5·31 | 240·81 | Mrs. M. A. Watson | Juadine Northwood Beau (19670) |
| Davyhurst Lilac | A.I.S. | .... | 20-9-44 | 12-4-48 | 240 | 12·0 | 6,510 | 3·67 | 239·52 | W. H. Doyle & Son | Tipperary President (5335) |
| Mayvale Ace's Butterfly | Guernsey | 13650 | 22-7-44 | 5-2-48 | 273 | 13·0 | 5,304 | 4·42 | 234·45 | R. J. Giles | Koojan Ace's Dauntless (5933) |
| Rosella Matilda | do. | 14400 | 23-9-44 | 15-6-48 | 240 | 7·5 | 3,945 | 5·73 | 226·14 | Darnell Bros. | Cranbourne Charlie (3993) |
| Chelsea Anna 2nd | do. | 12590 | 23-10-44 | 12-8-48 | 210 | 9·0 | 4,425 | 4·93 | 218·52 | W. D. Patmore | Denmark Briar's Reflection (5745) |
| Rosalind Janet 8th | A.I.S. | .... | 15-10-44 | 6-8-48 | 240 | 7·0 | 4,935 | 3·73 | 184·47 | W. K. Barnes | Wallatin Dandy (6370) |
| Alne Bank Fairy 36th | do. | 48446 | 9-12-44 | 9-8-48 | 210 | 9·5 | 5,140 | 3·33 | 171·00 | G. W. Marston | Park View Factor (5107) |
| Juadine Peerless Lily 24th | Jersey | .... | 18-5-44 | 10-3-48 | 120 | 6·5 | 2,010 | 4·95 | 99·66 | K. V. Gray | Juadine Northwood Beau (19670) |
| Narrogin Damsel | A.I.S. | 52481 | 7-6-44 | 11-2-48 | 120 | 10·0 | 2,370 | 3·63 | 86·16 | Narrogin School of Agriculture | Tipperary Amy's Mascot (6338) |
| Chelsea Queenie | Guernsey | 12595 | 27-3-45 | 21-10-48 | 60 | 18·0 | 1,275 | 4·67 | 59·58 | W. D. Patmore | Denmark Briar's Reflection (5745) |
| Mereworth Bravo Silvermine | Jersey | .... | 25-6-45 | 6-3-49 | 30 | 19·0 | 570 | 5·77 | 32·88 | B. Langridge | Grantham Easter's Marchalong (20736) |
| **COWS 4 YEARS AND UNDER 4½ YEARS—STANDARD 310 LB. BUTTER-FAT.** | | | | | | | | | | | |
| Merrivale Anne | Guernsey | 13634 | 1-1-44 | 22-5-48 | 273 | 16·0 | 9,108 | 6·56 | 598·14 | W. J. Smith | Denmark Ace's Image (5741) |
| River Glen Clarabelle 67th | A.I.S. | 46299 | 17-4-44 | 19-8-48 | 273 | 27·5 | 11,184 | 4·35 | 487·27 | M. H. Montgomery | Kiama Chief (4098) |
| Muresk Veronica | Guernsey | 13950 | 3-7-44 | 21-8-48 | 273 | 23·0 | 8,439 | 5·33 | 449·46 | Muresk Agricultural College | Koojan Ideal's Dictator (4167) |
| Valliere Dairymaid | A.I.S. | 47673 | 8-4-44 | 6-4-48 | 273 | 25·5 | 11,206 | 3·96 | 443·96 | J. H. Bensted & Co. | Valliere Skipton (7595) |
| Muresk Awas | Guernsey | 13921 | 25-5-44 | 2-8-48 | 273 | 16·0 | 9,768 | 4·44 | 433·88 | Muresk Agricultural College | Koojan Ideal's Dictator (4167) |
| Juadine Jewel 5th | Jersey | .... | 29-1-45 | 2-4-48 | 273 | 22·5 | 8,317 | 5·17 | 430·37 | G. Layman | Juadine Northwood Beau (19670) |
| Carydale Royal Daisy | do. | 758 | 4-3-44 | 22-4-48 | 273 | 17·0 | 6,996 | 5·99 | 419·05 | G. Layman | Juadine Royal (20841) |
| Grass Vale Lady Fowler 39th | do. | 1681 | 30-9-43 | 23-10-47 | 273 | 17·0 | 7,896 | 5·11 | 404·25 | R. H. Rose & Son | Mornmoot Northwood Beau (17798) |
| Muresk Joan | Guernsey | 13936 | 10-6-44 | 6-10-48 | 273 | 20·0 | 8,400 | 4·45 | 373·84 | Muresk Agricultural College | Koojan Ideal's Dictator (4167) |
| Wooroloo Model 2nd | A.I.S. | 48122 | 26-6-44 | 16-9-48 | 273 | 16·0 | 9,018 | 4·01 | 362·00 | Wooroloo Sanatorium Farm | Berry Rufus 2nd (6570) |
| Carydale Centenary Girl | Jersey | 755 | 12-3-44 | 2-5-48 | 273 | 19·0 | 6,507 | 5·38 | 350·21 | G. Layman | Carydale Bidomak (20529) |
| Walgett Fondant | do. | .... | 2-4-44 | 15-4-48 | 273 | 15·5 | 6,986 | 4·74 | 331·30 | C. J. Cunningham | Selsey Wyandotte's Prince (18058) |
| Radyr Park Dorothy 29th | do. | .... | 12-7-44 | 20-9-48 | 273 | 7·0 | 6,111 | 5·11 | 312·27 | L. M. Temple | Radyr Park Estrellita 2nd's Starlight (21187) |
| Camden Charmaine | do. | .... | 11-7-43 | 16-12-47 | 273 | 6·0 | 5,358 | 5·74 | 307·70 | A. G. Eckersley | Greenmount Golden Bobbie (18578) |
| Wooroloo Bertha | A.I.S. | 48091 | 26-7-44 | 25-9-48 | 273 | 11·0 | 7,443 | 4·11 | 306·24 | Wooroloo Sanatorium Farm | Wooroloo Red Baron (6412) |
| Koojan Ace's Jane | Guernsey | 13493 | 5-7-44 | 3-8-48 | 273 | 13·0 | 5,544 | 5·51 | 305·74 | A. W. Padbury | Homestead Ace (Imp.) (1631) |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Kapara Sparkle 4th.... .... | Jersey | 2202 | 15-4-44 | 1-7-48 | 273 | 10·5 | 6,451 | 4·68 | 302·53 | W. L. Bradford .... | Congelin Jolly Eminent 3rd (18425) |
| Clovelly Twinkle .... .... | Guernsey | 12620 | 30-4-44 | 11-6-48 | 273 | 7·0 | 5,496 | 5·42 | 298·12 | J. Cabassi .... .... | Lansdowne Polydymite (4995) |
| Rutherwood Golden Dawn .... | do. | 14488 | 15-4-44 | 13-9-48 | 273 | 13·5 | 5,815 | 4·96 | 288·70 | Misses E. & I. Rutherford | Denmark Golden Rippler (5751) |
| Mereworth Coronation Vanilla | Jersey | .... | 22-3-44 | 28-5-48 | 273 | 10·0 | 5,355 | 5·33 | 285·71 | B. Langridge .... | Navua Coronation Star (14929) |
| Rutherwood Golden Beauty | Guernsey | 14486 | 28-12-43 | 8-4-48 | 273 | 14·5 | 5,248 | 5·42 | 284·55 | Misses E. & I. Rutherford | Denmark Golden Rippler (5751) |
| Claremont Clarie 4th .... | A.I.S. | 49608 | 3-2-44 | 5-8-48 | 273 | 14·0 | 7,212 | 3·90 | 281·29 | Wooroloo Sanatorium Farm | Summerlea Churchill (6238) |
| Denmark Dulceena .... .... | Guernsey | 12680 | 6-1-44 | 15-3-48 | 273 | 8·0 | 4,839 | 5·63 | 272·64 | W. D. Patmore .... | Koojan Ideal's Reflection (4974) |
| Eungella Yileen .... .... | Jersey | 1354 | 27-4-44 | 10-5-48 | 273 | 6·0 | 5,058 | 5·33 | 269·83 | D. G. Spark .... .... | Eungella Prince Starbright (19538) |
| Claremont Poppy 34th .... | A.I.S. | 49646 | 22-2-44 | 6-8-48 | 273 | 4·5 | 6,463 | 4·17 | 269·59 | Claremont Hospital for Insane | Summlea Churchill (6238) |
| Kapara Valentine .... .... | Jersey | 2206 | 13-3-44 | 4-4-48 | 273 | 16·5 | 5,719 | 4·67 | 267·13 | W. L. Bradford .... | Kapara Cream Sox (20860) |
| Grass Vale Lady Fowler 41st | do. | .... | 3-4-44 | 24-8-48 | 273 | 9·5 | 5,338 | 4·96 | 264·79 | K. V. Gray .... .... | Mornmoot Northwood Beau (17798) |
| Radford Park Lily .... .... | do. | .... | 21-5-44 | 13-8-48 | 210 | 4·0 | 4,260 | 6·07 | 258·51 | Radford Park Co. .... | Grass Vale Golden Lad (19599) |
| Glanavon Picture 8th .... | A.I.S. | .... | 8-7-43 | 22-9-47 | 273 | 18·0 | 6,564 | 3·92 | 257·89 | D. Bevan & Sons .... | Blacklands Monarch's Commander (1877) |
| Lenmoor's Rosy .... .... | do. | 45032 | 18-8-43 | 2-11-47 | 240 | 15·0 | 6,030 | 4·12 | 248·97 | W. K. Barnes .... | Ferndale Radiant (5729) |
| Kapara Dairymaid 3rd .... | Jersey | 2198 | 4-8-44 | 27-8-48 | 273 | 10·0 | 5,100 | 4·83 | 246·39 | W. L. Bradford .... | Congelin Mandarin (14542) |
| Lenmoor's Queen 5th .... | A.I.S. | 51745 | 20-6-44 | 16-7-48 | 240 | 5·0 | 7,230 | 3·36 | 242·99 | G. W. Marston .... | Wooroloo Union Jack (7662) |
| Radyr Park Estrellita 5th .... | Jersey | 3479 | 1-8-43 | 19-9-47 | 273 | 8·0 | 3,924 | 6·14 | 241·07 | L. M. Temple .... | Navua September Lad (14023) |
| Rutherwood Golden Twinkle | Guernsey | 14494 | 4-1-44 | 3-5-48 | 273 | 5·0 | 5,280 | 4·46 | 235·30 | Misses E. & I. Rutherford | Denmark Golden Rippler (5751) |
| Wooroloo Delys .... .... | A.I.S. | 48097 | 1-4-44 | 3-7-48 | 210 | 7·0 | 5,460 | 4·26 | 232·86 | Wooroloo Sanatorium Farm | Wooroloo Top Gallant (7661) |
| Rosella Daffodil .... .... | Guernsey | 14392 | 7-8-44 | 15-8-48 | 180 | 13·5 | 3,993 | 5·14 | 230·64 | Darnell Bros..... .... | Cranbourne Charlie (3993) |
| Lenmoor's Della 5th .... | A.I.S. | 51740 | 14-8-44 | 5-11-48 | 210 | 3·0 | 4,845 | 4·68 | 227·04 | G. W. Marston .... | Ferndale Radiant (5729) |
| Clovelly Diana .... .... | Guernsey | 12603 | 15-5-44 | 6-7-48 | 240 | 9·5 | 5,175 | 4·21 | 218·00 | J. Cabassi .... .... | Lansdowne Polydymite (4995) |
| Radford Park Pansy .... | Jersey | .... | 22-5-44 | 13-8-48 | 210 | 4·0 | 4,500 | 4·83 | 217·38 | Radford Park Co. .... | Grass Vale Golden Lad (19599) |
| Rutherwood Golden Twilight | Guernsey | 14492 | 4-1-44 | 3-5-48 | 273 | 9·0 | 4,692 | 4·58 | 214·78 | Misses E. & I. Rutherford | Denmark Golden Rippler (5751) |
| Mereworth Dreaming Silvermine | Jersey | .... | 31-5-44 | 29-9-48 | 240 | 11·5 | 4,230 | 4·87 | 206·02 | B. Langridge .... | Navua Coronation Star (14929) |
| Clovelly Golden Pearl .... | Guernsey | 12607 | 20-5-44 | 31-8-48 | 180 | 10·5 | 4,215 | 4·69 | 197·97 | J. Cabassi .... .... | Lansdowne Polydymite (4995) |
| Valliere Winnie .... .... | A.I.S. | 47716 | 10-4-44 | 18-9-48 | 150 | 19·5 | 4,965 | 3·92 | 194·46 | J. H. Bensted & Co. .... | Valliere Skipton (7595) |
| Radford Park Rose ... | Jersey | .... | 17-5-44 | 23-8-48 | 210 | 4·0 | 2,895 | 6·42 | 185·79 | Radford Park Co. .... | Grass Vale Golden Lad (19599) |
| Glanavon Goldilocks 8th .... | A.I.S. | .... | 11-10-43 | 28-3-48 | 120 | 33·5 | 4,125 | 3·92 | 161·94 | D. Bevan & Sons .... | Blacklands Jean's Supreme (1871) |
| Grass Vale Magnolia 6th ... | Jersey | 1684 | 3-4-44 | 11-7-48 | 90 | 37·0 | 3,330 | 4·86 | 161·73 | R. H. Rose & Son .... | Mornmoot Northwood Beau (17798) |
| Mayvale Discoverer's Bluebell 3rd | Guernsey | 13659 | 28-7-44 | 29-10-48 | 210 | 6·0 | 3,660 | 4·40 | 161·22 | R. J. Giles .... .... | Koojan Ideal's Discoverer (4968) |
| Brookfield's Jess .... .... | do. | 12343 | 15-11-43 | 17-5-48 | 210 | 9·5 | 2,820 | 5·56 | 156·93 | W. D. Patmore .... | Yarraview Julien (4634) |
| Radford Park Boronia .... | Jersey | .... | 20-9-44 | 27-10-48 | 120 | 8·0 | 2,760 | 5·07 | 140·01 | Radford Park Co. .... | Grass Vale Golden Lad (19599) |
| Glanavon Princess 2nd .... | A.I.S. | .... | 22-12-43 | 10-4-48 | 120 | 31·0 | 3,780 | 3·62 | 137·13 | D. Bevan & Sons .... | Newstead Triumph (3420) |
| Mayvale Ace's Buttercup .... | Guernsey | 13649 | 3-9-44 | 15-1-49 | 120 | 15·5 | 3,015 | 4·37 | 131·85 | R. J. Giles .... .... | Koojan Ace's Dauntless (5933) |
| Juadine Julienne 4th .... | Jersey | .... | 28-5-44 | 30-6-48 | 120 | 5·5 | 1.445 | 4·76 | 68·79 | K. V. Gray .... .... | Juadine Northwood Beau (19670) |

COWS 4½ YEARS AND UNDER 5 YEARS—STANDARD 330 lb. BUTTERFAT.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Koojan Noblemark's Bo Peep | Guernsey | 13512 | 19-12-42 | 17-11-47 | 273 | 25.0 | 9,855 | 5.76 | 567.97 | A. W. Padbury .... | Koojan Ideal's Noblemark (5949) |
| Grass Vale Eve .... .... | Jersey | 1679 | 19-9-43 | 1-9-48 | 273 | 19.0 | 8,802 | 5.88 | 517.38 | R. H. Rose & Son .... | Mornmoot Northwood Beau (17798) |
| Grass Vale Golden Cream 26th | do. | 98525 | 3-8-43 | 7-8-48 | 273 | 14.0 | 8,397 | 6.00 | 504.57 | R. H. Rose & Son .... | do. do. do. |
| Lenmoor's Red Queen .... | A.I.S. | .... | 18-8-43 | 5-4-48 | 273 | 29.5 | 12,120 | 3.93 | 477.00 | G. W. Marston .... | Ferndale Radiant (5729) |
| Denmark Bonnie Marie .... | Guernsey | 12675 | 30-11-43 | 30-6-48 | 273 | 10.0 | 8,655 | 5.41 | 468.50 | Denmark Research Station | Denmark Marie's Ruler (5756) |
| Grass Vale Magnolia 5th .... | Jersey | 98526 | 16-10-43 | 9-8-48 | 273 | 9.0 | 7,892 | 5.82 | 459.45 | R. H. Rose & Son .... | Grass Vale Gold Cup (20745) |
| Camden Celeste .... .... | do. | 97747 | 10-9-43 | 6-5-48 | 273 | 16.5 | 7,399 | 6.03 | 446.48 | D. G. Spark .... .... | Greenmount Golden Bobby (18578) |

TABLE 8—PURE BRED HERD TESTING—*continued.*

Cows which completed test during the twelve months ended 30th June, 1949—*continued.*

| Name of Cow. | Breed. | Herd Book No. | Date of Birth. | Date of Entry to Test. | No. of Days in Test. | Weight of Milk on Last Day of Test. lb. | Weight of Milk for Period. lb. | Average Test. % | Weight of Butter Fat for Period. lb. | Owner. | Sire. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| COWS 4½ YEARS AND UNDER 5 YEARS—STANDARD 330 LB. BUTTER-FAT—*continued.* | | | | | | | | | | | |
| Travalgan Starbright 23rd | do. | 100462 | 27-6-43 | 15-5-48 | 273 | 19.0 | 7,287 | 6.10 | 444.76 | J. C. Bushell | Orphanage Douglas (18919) |
| Carydale Precious | do. | 757 | 6-5-43 | 28 3-48 | 273 | 26.0 | 8,898 | 4.96 | 441.83 | G. Layman | Hopelands Pattern (18624) |
| Koojan Ace's Gladsome | Guernsey | 13491 | 24-3-43 | 16-11-47 | 273 | 19.0 | 8,097 | 5.45 | 441.68 | A. W. Padbury | Homestead Ace (Imp.) (1631) |
| Tipperary Dove 23rd | A.I.S. | 47489 | 7-4-43 | 11-12-47 | 273 | 28.0 | 11,544 | 3.82 | 441.56 | W. G. Burges | Tipperary Ace (6336) |
| Trelawney A. B. | Jersey | | 27-4-43 | 22-3-48 | 273 | 27.0 | 8,220 | 5.37 | 441.25 | J. C. Bushell | Greenmount Golden Patch (19603) |
| Greyleigh Precious Gem 3rd | A.I.S. | 50962 | 29-9-43 | 14-7-48 | 273 | 26.0 | 10,878 | 3.95 | 430.36 | W. G. Burges | Greyleigh Wooton (4016) |
| Korijekup Nadine | Jersey | | 23-11-43 | 20-7-48 | 273 | 11.0 | 6,573 | 6.01 | 395.31 | A. G. Eckersley | Juadine Captain (20840) |
| Muresk Susanna | Guernsey | 13948 | 29-11-43 | 25-9-48 | 273 | 17.0 | 7,881 | 4.93 | 388.84 | Muresk Agricultural College | Koojan's Ideal Dictator (4167) |
| Eungella Telopia | Jersey | 98286 | 20 5-43 | 14-5-48 | 273 | 9.0 | 5,982 | 6.40 | 383.33 | D. G. Spark | Travalgan Starbright King (18129) |
| Carydale Pretty Janis | do. | 97783 | 20 4 43 | 3-4-48 | 273 | 18.0 | 7,074 | 5.27 | 373.04 | G. Layman | Hopelands Pattern (18624) |
| Juadine Queen 2nd | do. | | 2 1 44 | 31-7-48 | 273 | 9.0 | 6,282 | 5.44 | 341.57 | K. V. Gray | Juadine Northwood Beau (19670) |
| Denmark Reflection's Dawn | Guernsey | 2695 | 12 11 43 | 17-5 48 | 273 | 13.0 | 6,309 | 5.38 | 339.25 | W. D. Patmore | Koojan Ideal's Reflection (4974) |
| Walgett Ranunculas | Jersey | 4112 | 26-5-43 | 24 3-48 | 273 | 20.5 | 6,841 | 4.74 | 324.10 | C. J. Cunningham | Selsey Wyandottes Prince (18058) |
| Clovelly Hazel | Guernsey | 12608 | 14-8-43 | 20 5-48 | 273 | 10.0 | 6,015 | 5.38 | 323.50 | J. Cabassi | Lansdowne Polydymite (4995) |
| Tipperary Lady May 6th | A.I.S. | 47496 | 8-5-43 | 10-3-48 | 273 | 13.0 | 7,719 | 3.94 | 304.54 | W. G. Burges | Tipperary Ace (6336) |
| Rosella Ladybird | Guernsey | 14398 | 29-11-43 | 25-7-48 | 210 | 13.5 | 5,955 | 4.84 | 297.60 | Darnell Bros. | Cranbourne Charlie (3993) |
| Clovelly Melba | do. | 12613 | 21 6-43 | 17-6-48 | 273 | 13.0 | 7,149 | 4.15 | 296.49 | J. Cabassi | Lansdowne Polydymite (4995) |
| Claremont Plum 9th | A.I.S. | 42647 | 24-11-42 | 26 10 47 | 273 | 21.0 | 8,118 | 3.63 | 295.15 | Claremont Hospital for Insane | Westby Monarch (5404) |
| Denmark Dawn's Reflectionette | Guernsey | 12679 | 7-9-43 | 14-7-48 | 210 | 14.0 | 5,460 | 5.34 | 291.72 | Denmark Research Station | Koojan Ideal's Reflection (4974) |
| Woodford Dainty | do. | 15196 | 4-9-43 | 15-5 48 | 273 | 10.0 | 5,190 | 5.50 | 285.75 | W. R. Ferry | Yarraview Clarinet 2nd (4629) |
| Lenmoor's Peggy 2nd | A.I.S. | 51744 | 15-1-44 | 25 8-48 | 273 | 4.5 | 7,303 | 3.89 | 284.39 | G. W. Marston | Ferndale Radiant (5729) |
| Wooroloo Golden Dawn | A.I.S. | 48107 | 17-10-43 | 24-9-48 | 273 | 12.0 | 6,726 | 4.12 | 277.45 | Wooroloo Sanatorium Farm | Berry Rufus 2nd (6570) |
| Maldon Joan | do. | 45225 | 20 7-43 | 24-4-48 | 240 | 15.0 | 6,915 | 3.99 | 276.10 | W. H. Doyle & Son | Capel Great Star (5580) |
| Glanavon Fairy 8th | do. | 43754 | 24 3-43 | 5 10 47 | 273 | 10.0 | 6,540 | 4.10 | 268.77 | D. Bevan & Sons | Blacklands Jean's Supreme (1871) |
| Murra Murra Golden Patch | Jersey | | 11-12-43 | 7-8-48 | 180 | 13.5 | 4,935 | 5.44 | 268.65 | Mrs. M. A. Crute | The Wold Northwood King (19138) |
| Capel Rose Marie | A.I.S. | 42462 | 12 6-43 | 8-6-48 | 180 | 19.5 | 6,990 | 3.79 | 265.26 | W. H. Doyle & Son | Capel Dove King (5579) |
| Grantville Blossom 5th | do. | 44123 | 26 10-43 | 3-9-48 | 150 | 33.0 | 6,720 | 3.77 | 253.17 | W. G. Burges | Swanlea Monarch (7514) |
| Claremont Pinafore 19th | do. | 49643 | 3-1-44 | 8-9-48 | 273 | 25.0 | 8,055 | 3.09 | 249.21 | Claremont Hospital for Insane | Westby Monarch (5404) |
| Mokine Empire's Lily 41st | Jersey | 2865 | 10-10-43 | 25 7 48 | 273 | 3.5 | 4,245 | 5.85 | 248.32 | Davies & Son | Mokine Royal Dick (21018) |
| Kapara Firefly | do. | 98816 | 11-8-43 | 7-5-48 | 210 | 14.0 | 5,445 | 4.56 | 248.28 | W. L. Bradford | Congelin Mandarin (14542) |
| Tipperary Beauty 17th | A.I.S. | 47484 | 1-4 43 | 26 11-47 | 240 | 8.0 | 6,640 | 3.63 | 241.02 | W. G. Burges | Tipperary Ace (6336) |
| Koojan Ace's Juliette | Guernsey | 13501 | 29-5-44 | 14-12-48 | 180 | 23.5 | 5,760 | 4.11 | 236.97 | R. J. Giles | Homestead Ace (Imp.) (1631) |
| Maldon Ethel | A.I.S. | 45221 | 10-8-43 | 15-7-48 | 180 | 19.5 | 6,450 | 3.66 | 236.55 | W. H. Doyle & Son | Capel Great Star (5580) |
| Clovelly Lola | Guernsey | 12612 | 7-9-43 | 9-5-48 | 273 | 12.5 | 5,137 | 4.55 | 233.80 | J. Cabassi | Lansdowne Polydymite (4995) |
| Glanavon Fairy 9th | A.I.S. | | 3-5-43 | 24-4-48 | 240 | 38.0 | 5,790 | 4.00 | 231.63 | D. Bevan & Son | Blacklands Monarch's Commander (1877) |
| Maldon Peggy | A.I.S. | 45229 | 21-7-43 | 8-6-48 | 210 | 22.5 | 6,690 | 3.30 | 221.07 | W. H. Doyle & Son | Capel Great Star (5580) |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Glanavon Daphne 9th .... | do. | .... | 1-5-43 | 24-3-48 | 150 | 29.0 | 5,160 | 4.04 | 208.74 | D. Bevan & Sons .... | Blacklands Jean's Supreme (1871) |
| Camden Milkmaid .... .... | Jersey | .... | 9-12-43 | 20-6-48 | 240 | 7.0 | 4,140 | 4.96 | 205.72 | K. V. Gray .... .... | Greenmount Starbright (20748) |
| Mereworth Oxford Makanora | do. | .... | 28-6-43 | 15-4-48 | 240 | 10.5 | 4,090 | 4.91 | 201.06 | B. Langridge .... | Clarendon Eyre Oxford Pioneer (11484) |
| Maldon Betty .... .... | A.I.S. | 45217 | 20-7-43 | 2-7-48 | 180 | 12.5 | 5,595 | 3.58 | 200.82 | W. H. Doyle & Son .... | Capel Great Star (5580) |
| Mokine Empires Lily 40th .... | Jersey | 2864 | 27-3 43 | 13 8-48 | 210 | 5.0 | 4,155 | 4.76 | 198.06 | Davies & Sons .... | Mokine Royal Dick (21018) |
| Mayvale Ideal's June .... | Guernsey | 13667 | 8-7-44 | 8 2-49 | 120 | 22.5 | 3,615 | 5.17 | 186.81 | R. J. Giles .... .... | Koojan Ideal's Discoverer (4968) |
| Muresk Gwenda .... .... | do. | 13932 | 3-5-43 | 9-3-48 | 240 | 8.0 | 4,005 | 4.55 | 182.39 | J. R. Giles .... .... | Koojan Ideal's Dictator (4167) |
| Mereworth Oxford Vanilla 3rd | Jersey | 99301 | 30-4-43 | 16-4-48 | 240 | 8.5 | 3,360 | 5.23 | 175.89 | B. Langridge .... | Clarendon Eyre Oxford Pioneer (11484) |
| Grass Vale Buttercup 14th .... | do. | 98523 | 7-9-43 | 7-5-48 | 90 | 28.0 | 3.330 | 5.12 | 170.82 | R. H. Rose & Son .... | Grass Vale Gold Cup (20745) |
| Narrogin Flo .... .... | A.I.S. | 45649 | 6 4-43 | 25-2-48 | 180 | 13.0 | 4,230 | 3.54 | 150.00 | Narrogin School of Agriculture | Tipperary Amy's Mascot (6338) |
| Trelawney Belle .... .... | Jersey | 3969 | 12-5-43 | 25-3-48 | 180 | 8.0 | 2.100 | 6.24 | 131.16 | F. Campbell .... .... | Greenmount Golden Patch (19603) |
| Rosella Pauline .... .... | Guernsey | 14403 | 8-8-43 | 17-4-48 | 180 | 5.5 | 2,520 | 4.56 | 115.11 | Darnell Bros. .... | Cranbourne Charlie (3993) |
| Travalgan Lady Eion 18th .... | Jersey | 100456 | 30-5 43 | 15-4-48 | 150 | 10.0 | 2.010 | 5.34 | 107.46 | F. Campbell .... .... | Orphanage Cuba (17913) |
| Rosella Bloom .... .... | Guernsey | 14391 | 1-9 43 | 26 3 48 | 120 | 19.0 | 2,115 | 4.86 | 102.93 | Darnell Bros. .... | Cranbourne Charlie (3993) |
| Juadine Peerless Lily 24th .... | Jersey | .... | 18-5-44 | 15-1-49 | 90 | 6.5 | 1,755 | 5.48 | 96.18 | K. V. Gray .... .... | Juadine Northwood Beau (19670) |
| Brookfields Blanche .... | Guernsey | 12325 | 2-10-43 | 23-8-48 | 60 | 16.5 | 1,470 | 4.98 | 73.29 | W. D. Patmore .... | Yarraview Julian (4634) |

COWS 5 YEARS OLD AND OVER—STANDARD 350 LB. BUTTERFAT.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mokine Beauty .... .... | Jersey | 94437 | 20-9-41 | 21-6 48 | 273 | 29.0 | 11,127 | 5.94 | 661.13 | T. H. Wilding .... | Erlwin Royal Volunteer (16491) |
| Congelin Rose Marie 6th .... | Jersey | 80830 | 14-4-40 | 6-5-48 | 273 | 26.0 | 10,068 | 6.25 | 629.14 | D. Bradford .... .... | Rosecliffe Marchalong (15094) |
| Grass Vale Lady Fowler 33rd | do. | 92716 | 7-7-41 | 20 4-48 | 273 | 33.0 | 11,574 | 5.18 | 601.09 | R. H. Rose & Son .... | Mornmoot Northwood Beau (17798) |
| Grass Vale Silvermine 2nd .... | do. | 1687 | 8-9-42 | 22-7-48 | 273 | 18.0 | 10,204 | 5.37 | 548.21 | do. do. | do. do. do. |
| Denmark Golden Valencia 2nd | Guernsey | 8535 | 15-9-39 | 3 7 48 | 273 | 18.0 | 9,639 | 5.63 | 542.73 | Denmark Research Station | Koojan Ace's Goldseeker (3431) |
| Marrivale Serene .... .... | do. | 10855 | 22-7-42 | 21-5-48 | 273 | 16.5 | 9,634 | 5.55 | 534.75 | W. J. Smith .... .... | Marrivale Buccaneer (5041) |
| Eungella Faline .... .... | Jersey | 98285 | 4-5-43 | 24-5-48 | 273 | 22.0 | 9,526 | 5.61 | 534.46 | D. G. Spark .... .... | Travalgan Starbright King (18129) |
| Denmark Reflectionette .... | Guernsey | 12691 | 15 11-42 | 21-11-47 | 273 | 24.0 | 8,787 | 5.98 | 525.48 | Denmark Research Station | Koojan Ideal's Reflection (4974) |
| Marrivale Dawn .... .... | Guernsey | 8936 | 1-9 38 | 27-3-48 | 273 | 26.0 | 7,563 | 6.59 | 498.97 | W. J. Smith .... .... | Moongi Golden Dream (1493) |
| Wooroloo Netta 2nd .... | A.I.S. | 33996 | 6 10-39 | 19-2-48 | 273 | 27.0 | 11,331 | 4.31 | 488.37 | Wooroloo Sanatorium Farm | Glanavon Genius (3957) |
| Travalgan Starbright 20th .... | Jersey | 100459 | 15-4-43 | 21-4-48 | 273 | 25.0 | 7,755 | 6.18 | 479.64 | J. C. Bushell .... | Orphanage Cuba (17913) |
| Colmyn Golden Lustre .... | do. | 80800 | 5-9-40 | 7-7-48 | 273 | 19.0 | 9,372 | 5.03 | 471.17 | C. H. Ironmonger .... | Clarendon Eyre Golden Oxford (13606) |
| Marrivale Sylph .... .... | Guernsey | 10857 | 3-9-40 | 4-4-48 | 273 | 18 0 | 7,209 | 6.53 | 470.55 | W. J. Smith .... .... | Koojan Golden Prosper (2283) |
| Walgett Lady Wyandotte .... | Jersey | 4109 | 29-4-42 | 31 7-48 | 273 | 15.0 | 8,790 | 5.27 | 463.98 | C. J. Cunningham .... | Selsey Wyandotte's Prince (18058) |
| Glanavon Maggie 2nd .... | A.I.S. | 36563 | 21-2-41 | 17-5-48 | 273 | 21.0 | 10,653 | 4.35 | 463.65 | M. H. Montgomery .... | Blacklands Monarch's Commander (1877) |
| Denmark Bonnie Princess .... | Guernsey | 12676 | 28 11-42 | 16-9-48 | 273 | 21.5 | 8,744 | 5.27 | 460.93 | Denmark Research Station | Koojan Ideal's Reflection (4974) |
| Marrivale Sublime .... .... | Guernsey | 10856 | 28-3-41 | 12-10-47 | 273 | 30 5 | 8,176 | 5.61 | 459.07 | W. J. Smith .... .... | Moongi Golden Dream (1493) |
| Walgett Royal Lily .... | Jersey | 4113 | 26-3-42 | 9-7-48 | 273 | 19.0 | 9,087 | 5.05 | 458.95 | C. J. Cunningham .... | Selsey Wyandotte's Prince (18058) |
| Tipperary Lovely 4th .... | A.I.S. | 40644 | 29-6 40 | 25-4-48 | 273 | 25.0 | 10,215 | 4.41 | 450.81 | M. H. Montgomery .... | Blacklands Monarch's Commander (1877) |
| Chenaar Mavis .... .... | Jersey | .... | 6-1-40 | 13-8-48 | 273 | 12.5 | 9,382 | 4.74 | 445.00 | C. E. Jackson .... | Travalgan Starbright's Altitude (12260) |
| Tipperary Dove 25th .... | A.I.S. | 47490 | 6-5 43 | 17-7-48 | 273 | 22.0 | 11,496 | 3.86 | 443.95 | W. G. Burges .... | Tipperary Ace (6336) |
| Wooroloo Gail .... .... | A.I.S. | 48105 | 28-2-43 | 6 7-48 | 273 | 10.0 | 10,230 | 4.31 | 440.86 | Wooroloo Sanatorium Farm | Wooroloo Red Baron (6412) |
| Tipperary Beauty 11th .... | A.I.S. | 40633 | 20-9-40 | 9-8-48 | 273 | 19.0 | 10,417 | 4.16 | 433 49 | M. H. Montgomery .... | Liberton Venturer (4988) |
| Denmark Briar Rose .... | Guernsey | 6959 | 15-8-37 | 22-10-47 | 273 | 26.0 | 8,388 | 5.09 | 426.81 | Denmark Research Station | Denmark Illustrious (3320) |

TABLE 8—PURE BRED HERD TESTING—*continued.*

Cows which completed test during the twelve months ended 30th June, 1949—*continued.*

| Name of Cow. | Breed. | Herd Book No. | Date of Birth. | Date of Entry to Test. | No. of Days in Test. | Weight of Milk on Last Day of Test. lb. | Weight of Milk for Period. lb. | Average Test. % | Weight of Butter Fat for Period. lb. | Owner. | Sire. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| COWS 5 YEARS OLD AND OVER—STANDARD 350 LB. BUTTER-FAT—*continued.* | | | | | | | | | | | |
| Claremont Treasure 25th ... | A.I.S. | 35571 | 22-11-40 | 25-6-48 | 273 | 30.0 | 10,620 | 3.99 | 424.12 | Wooroloo Sanatorium Farm | Westby Monarch (5404) |
| Ardersia Lady Catherine ... | Jersey | 70011 | 31-8-38 | 6-6-48 | 273 | 21.5 | 8,359 | 4.94 | 413.60 | T. M. Smith .... .... | Glen Iris Golden Oxford (12694) |
| Clovelly Crystal .... .... | Guernsey | 10240 | 31-8-41 | 13-5-48 | 273 | 12.0 | 8,151 | 5.05 | 411.95 | J. Cabassi .... ... | Koojan Monogram (4174) |
| Denmark Ace's Rose .... | do. | 10284 | 29-11-41 | 17-5-48 | 273 | 15·0 | 8,100 | 5·03 | 407·70 | Denmark Research Station | Homestead Ace (Imp.) (1631) |
| Colmyn Golden Melody .... | Jersey | 75709 | 29-5-39 | 13-8-48 | 273 | 16·5 | 8,269 | 4·85 | 401·30 | C. H. Ironmonger .... | Clarendon Eyre Golden Oxford (13606) |
| Walgett Joy's Gift .... .... | do. | 4108 | 6-4-42 | 28-3-48 | 273 | 30·0 | 8,430 | 4·73 | 399·13 | C. J. Cunningham .... | Selsey Wyandotte's Prince (18058) |
| Radyr Park Dorothy 20th.... | do. | 99940 | 17-6-42 | 30-5-48 | 273 | 12·0 | 8,226 | 4·83 | 397·37 | L. M. Temple .... | Navua September Lad (14023) |
| Tirano Beauty .... .... | A.I.S. | 47502 | 11-9-41 | 13-9-48 | 240 | 10·0 | 9,840 | 3·99 | 392·91 | J. H. Bensted & Co. | Chittering Prince (3800) |
| Lenmoor's Queen 2nd .... | do. | 37904 | 24-7-40 | 2-6-48 | 273 | 13·5 | 10,750 | 3·63 | 390·70 | G. W. Marston .... | Lenmoor's Gem (4977) |
| Denmark Bonnie Mary .... | Guernsey | 6958 | 30-9-37 | 3-10-48 | 273 | 18·0 | 7,344 | 5·24 | 384·59 | Denmark Research Station | Denmark Illustrious (3320) |
| Eungella Dark Venus .... | Jersey | 92032 | 18-5-41 | 29-6-48 | 273 | 7·0 | 7,806 | 4·88 | 381·29 | D. G. Spark .... .... | Travalgan Starbright King (18129) |
| Murra Murra Easter's Twinklette | do. | 88035 | 5-4-41 | 13-4-48 | 273 | 21·5 | 7,819 | 4·84 | 378·49 | Mrs. M. A. Crute .... | Grantham Easter's Monarch (11656) |
| Juadine Peggy .... .... | do. | 93219 | 16-9-41 | 10-3-48 | 273 | 21·0 | 7,545 | 5·00 | 377·67 | J. C. Bushell .... | Austral Park Wonderful Standard (12423) |
| Clovelly Lily .... .... | Guernsey | 10244 | 25-8-42 | 4-6-48 | 273 | 13·5 | 6,745 | 5·56 | 374·96 | J. Cabassi .... .... | Lansdowne Polydymite (4995) |
| Murra Murra Princess Royal | Jersey | 83006 | 3-4-40 | 12-6-48 | 240 | 14·5 | 7,395 | 5·07 | 374·90 | Mrs M. A. Crute .... | Grantham Easter's Monarch (11656) |
| Walgett Easter Lily .... | do. | 69576 | 20-4-37 | 13-4-48 | 273 | 18·0 | 8,109 | 4·59 | 372·20 | C. J. Cunningham .... | Walgett Beau's Masterpiece (13349) |
| Radyr Park September Estrellita | do. | .... | 22-6-43 | 15-7-48 | 273 | 10·0 | 6,360 | 5·85 | 372·18 | L. M. Temple .... | Navau September Lad (14023) |
| Lansdowne Bonnie Elizabeth | Guernsey | 10706 | 1-6-42 | 7-4-48 | 273 | 23·0 | 7,359 | 5·04 | 371·19 | J. R. Giles .... .... | Koojan Beau Ideal (4965) |
| Clovelly Cherry .... .... | do. | 10239 | 24-8-42 | 6-6-48 | 273 | 14·0 | 7,275 | 5·11 | 371·06 | J. Cabassi .... .... | Koojan Monogram (4174) |
| Muresk Delicia's Pride .... | do. | 13923 | 11-6-43 | 27-9-48 | 273 | 12·0 | 7,866 | 4·72 | 370·94 | Muresk Agricultural College | Koojan Ace's Warspite (5943) |
| Walgett Golden Duchess .... | Jersey | 79446 | 21-5-38 | 5-4-48 | 273 | 24·0 | 7,662 | 4·84 | 370·71 | C. J. Cunningham .... | Sabina Vale Betty's Beau (10018) |
| Walgett Handsome Girl 30th | do. | .... | 9-7-42 | 5-4-48 | 273 | 22·5 | 6,907 | 5·34 | 368·84 | do. do. | Selsey Wyandotte's Prince (18058) |
| Lansdowne Ideal's Pride .... | Guernsey | 13533 | 9-1-43 | 3-5-48 | 273 | 20·5 | 7,681 | 4·79 | 368·67 | J. R. Giles .... .... | Koojan Beau Ideal (4965) |
| Grass Vale Topsy .... .... | Jersey | 86647 | 11-8-41 | 2-6-48 | 273 | 13·0 | 7,374 | 4·98 | 367·20 | K. V. Gray .... .... | Mornmoot Northwood Beau (17798) |
| Coogely Jonquil .... .... | Guernsey | 6945 | 1-11-37 | 8-1-48 | 273 | 25·0 | 6,900 | 5·32 | 367·11 | Denmark Research Station | Coogely Judy's Goldmine (2621) |
| Claremont Biddy 60th .... | A.I.S. | 35493 | 12-1-42 | 28-1-48 | 273 | 25·0 | 8,585 | 4·26 | 366·07 | Claremont Hospital for Insane | Westby Monarch (5404) |
| Denmark Dame 2nd .... | Guernsey | 10289 | 6-11-41 | 5-5-48 | 273 | 21·0 | 7,383 | 4·95 | 365·43 | Denmark Research Station | Denmark Lady's Goldseeker (4799) |
| Capel Fairy 3rd .... .... | A.I.S. | 10308 | 30-4-42 | 24-8-48 | 273 | 11·0 | 10,308 | 3·51 | 362·60 | K. I. Prowse .... | Capel Lottie's Reward (3782) |
| Walgett Melanie .... .... | Jersey | 4110 | 10-4-41 | 3-6-48 | 273 | 11·5 | 6,334 | 5·70 | 361·00 | C. J. Cunningham .... | Selsey Wyandotte's Prince (18058) |
| Walgett Handsome Girl 29th | do. | .... | 24-6-42 | 29-3-48 | 273 | 17·5 | 5,722 | 6·29 | 359.48 | do. do. | do. do. do. |
| Colmyn Empress .... .... | do. | 97884 | 9-9-42 | 14-8-48 | 273 | 8·0 | 7,059 | 5·09 | 359·05 | C. H. Ironmonger .... | Greenmount Cream Lad (18577) |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Kapara Happy Days 2nd .... | do. | 93309 | 3-12-41 | 25-5-48 | 273 | 14·0 | 6,522 | 5·50 | 358·84 | D. Bradford .... .... | Grantham Easter Oxford (14677) |
| Walgett Jocelyn .... .... | do. | 89500 | 13-8-40 | 26-5-48 | 273 | 7·5 | 6,532 | 5·49 | 358·84 | C. J. Cunningham .... | Selsey Wyandotte's Prince (18058) |
| Mereworth Oxford Montrose | do. | 2732 | 4-5-43 | 28-6-48 | 273 | 13·5 | 7,015 | 5·11 | 358·41 | B. Langridge .... | Clarendon Eyre Oxford Pioneer (11484) |
| Grass Vale Lady Fowler 32nd | do. | 86644 | 11-6-41 | 28-5-48 | 273 | 7·0 | 6,981 | 5·12 | 357·57 | R. H. Rose & Son .... | Mornmoot Northwood Beau (17798) |
| Walgett Joyful .... .... | do. | 79450 | 29-8-38 | 29-3-48 | 273 | 21·0 | 6,723 | 5·26 | 353·74 | C. J. Cunningham .... | Sabina Vale Betty's Beau (10018) |
| Ferndale Jean 6th .... .... | A.I.S. | 30500 | 10-1-38 | 29-9-47 | 273 | 26·0 | 10,818 | 3·25 | 352·30 | G. W. Marston .... | Tabbagong Hinkler (261) |
| Tipperary Beauty 16th .... | do. | 47483 | 22-11-42 | 23-12-47 | 273 | 11·0 | 8,328 | 4·21 | 350·98 | W. G. Burges .... | Tipperary Ace (6336) |
| Walgett Royal Joy .... .... | Jersey | .... | 2-5-43 | 12-5-48 | 273 | 8·0 | 5,469 | 6·36 | 348·07 | C. J. Cunningham .... | Selsey Wyandotte's Prince (18058) |
| Tirano Lorna .... .... | A.I.S. | 47509 | 20-12-40 | 22-6-48 | 240 | 7·0 | 8,160 | 4·24 | 345·78 | J. H. Bensted & Co. | Chittering Prince (3800) |
| Camden Cleopatra .... .... | Jersey | 91041 | 31-3-42 | 18 5 48 | 273 | 6·0 | 5,343 | 6·47 | 345·55 | T. O. Abbott .... | Greenmount Golden Sultan (14688) |
| Lenmoor's Bluebell .... .... | A.I.S. | 37898 | 12-4-42 | 30-7-48 | 180 | 14·5 | 8,655 | 3·98 | 344·23 | G. W. Marston .... | Ferndale Memento (3194) |
| Denmark Diana .... .... | Guernsey | 6963 | 28-6-36 | 21-2-48 | 273 | 17·5 | 6,120 | 5·61 | 343·50 | Denmark Research Station | Denmark Damon (2519) |
| Camden Circe .... .... | Jersey | 80637 | 24-9-39 | 4-2-48 | 273 | 8·5 | 5,556 | 6·15 | 341·88 | K. V. Gray .... .... | Greenmount Golden Sultan (14688) |
| Lenmoor's Joan .... .... | A.I.S. | 31611 | 13-8-39 | 30-6-48 | 240 | 16·5 | 8,505 | 4·00 | 340·44 | G. W. Marston .... | Ferndale Memento (3194) |
| Walgett Delightful .... .... | Jersey | .... | 21-4-43 | 16-5-48 | 273 | 9·5 | 6,358 | 5·26 | 334·66 | C. J. Cunningham .... | Selsey Wyandotte's Prince (18058) |
| Juadine Julienne .... .... | do. | 87020 | 2-3-40 | 17-7-48 | 240 | 21·0 | 7,095 | 4·71 | 334·23 | Mrs. M. A. Watson .... | Austral Park Wonderful Standard (12423) |
| Mereworth Oxford Buttercup 2nd | do. | .... | 9-5-43 | 1-9-48 | 273 | 14·0 | 6,282 | 5·28 | 331·94 | B. Langridge .... | Clarendon Eyre Oxford Pioneer (11484) |
| Koojan Ace's Bluebird .... | Guernsey | 10686 | 9-6-42 | 17-11-47 | 273 | 15·5 | 6,871 | 4·80 | 330·39 | Darnell Bros. .... | Homestead Ace (Imp.) (1631) |
| Radyr Park Dorothy 16th.... | Jersey | 88643 | 4-6-41 | 20-1-48 | 273 | 21·0 | 6,508 | 5·07 | 330·04 | L. M. Temple .... | Navua Coronation Star (14929) |
| Inverell Hope 2nd .... .... | A.I.S. | 44575 | 12-8-42 | 19-9-48 | 273 | 18·0 | 8,349 | 3·91 | 326·42 | M. H. Montgomery .... | Liberton Venturer 2nd (7132) |
| Radyr Park June .... .... | Jersey | 73603 | 12-6-38 | 19-7-48 | 273 | 6·0 | 7,183 | 4·53 | 325·63 | L. M. Temple .... | Navua Coronation Star (14929) |
| Clovelly Golden Pride .... | Guernsey | 8501 | 26-10-38 | 22-6-48 | 273 | 5·5 | 6,856 | 4·73 | 324·82 | J. Cabassi .... .... | Drakesbrook Golden Gift (2651) |
| Tipperary Beauty 13th .... | A.I.S. | 40634 | 23-1-41 | 10-9-48 | 273 | 11·0 | 8,088 | 3·99 | 323·32 | M. H. Montgomery .... | Blacklands Monarch's Commander (1877) |
| Valencia Vale Chloe.... .... | Jersey | .... | 8-6-40 | 19-7-48 | 273 | 9·0 | 5,802 | 5·56 | 322·89 | K. V. Gray .... .... | Grass Vale Fowler's Twylish (12733) |
| Rutherwood Dinah .... .... | Guernsey | 9324 | 3 11-39 | 28-8-48 | 273 | 19·0 | 6,642 | 4·85 | 322·29 | Misses E. & I. Rutherford | Denmark Robin Hood (3322) |
| Denmark Rosette .... .... | do. | 6972 | 21-7-36 | 7-11-47 | 273 | 18·0 | 6,804 | 4·72 | 321·58 | Denmark Research Station | Koojan Golden Prosper (2283) |
| Grass Vale Norawood .... | Jersey | 92724 | 27-6-42 | 25 6-48 | 240 | 8·0 | 6,015 | 5·35 | 321·02 | R. H. Rose & Son .... | Mornmoot Northwood Beau (17798) |
| Maldon Primrose .... .... | A.I.S. | 45232 | 1-6-43 | 19-6-48 | 210 | 14·0 | 7,905 | 4·04 | 319·71 | W. H. Doyle & Son | Capel Great Star (5580) |
| Claremont Blossom 29th .... | do. | 29717 | 26-3-39 | 6-10-47 | 273 | 21·0 | 9,063 | 3·52 | 319·42 | Claremont Hospital for Insane | Wooroloo Jean 2nd's Guardian (4488) |
| Mayvale Discoverer's Anemone | Guernsey | 10864 | 16-7-40 | 27-10-47 | 273 | 16·0 | 6,753 | 4·72 | 319·00 | R. J. Giles .... .... | Koojan Ideal's Discoverer (4968) |
| Radyr Park Coronation's Estrellita | Jersey | 83555 | 27-7-39 | 7-7-48 | 240 | 13·0 | 5,960 | 5·32 | 317·25 | L. M. Temple .... | Navua Coronation Star (14929) |
| Greenmount Marion .... | do. | 86666 | 7-5-41 | 7-7-48 | 273 | 13·0 | 6,934 | 4·55 | 315·51 | K. V. Gray .... .... | Bellgonia Peggy 6th's Aim (17263) |
| Lenmoor's Queen 3rd .... | A.I.S. | 45029 | 12-11-41 | 28-7-48 | 240 | 16·0 | 8,550 | 3·62 | 309·81 | G. W. Marston .... | Ferndale Memento (3194) |
| Claremont Cherry 15th .... | do. | 29719 | 1-8-38 | 27-12 47 | 273 | 19·0 | 7,247 | 4·24 | 307·19 | Claremont Hospital for Insane | Claremont Max Hero (3802) |
| Clovelly Golden Flirt .... | Guernsey | 8500 | 1-6-39 | 8-4-48 | 273 | 15·5 | 6,496 | 4·72 | 306·62 | J. Cabassi .... .... | Koojan Monogram (4174) |
| Denmark Angeline .... .... | do. | 6956 | 4-7-37 | 12-7-48 | 273 | 12·0 | 5,781 | 5·26 | 304·51 | Denmark Research Station | Koojan Golden Prosper (2283) |
| Ardersia Northern Lady .... | Jersey | 79996 | 18-4-40 | 14 7-48 | 273 | 7·5 | 5,287 | 5·71 | 303·27 | T. M. Smith .... .... | Travalgan Northern Airman (13312) |
| Tirano Madame .... .... | A.I.S. | 54230 | 22-5-43 | 22-6-48 | 210 | 18·0 | 8,360 | 3·55 | 296·64 | J. H. Bensted & Co..... | Chittering Prince (3800) |
| Kapara Sparkles Lassie 2nd | Jersey | 98818 | 14-10-42 | 31-5-48 | 273 | 14·0 | 6,662 | 4·42 | 294·60 | W. L. Bradford .... | Congelin Jolly Eminent 3rd (18425) |
| Juadine Fairy .... .... | do. | 93213 | 12 6-43 | 19-7-48 | 240 | 5·0 | 4,890 | 5·99 | 292·74 | K. V. Gray .... .... | Juadine Northwood Beau (19670) |
| Rutherwood Robin's Rosa | Guernsey | 9330 | 30-8-38 | 17-8-48 | 273 | 17·0 | 5,901 | 4·93 | 290·78 | Misses E. & I. Rutherford | Denmark Robin Hood (3322) |
| Rosella Jeanette .... .... | do. | 14397 | 2 4-42 | 6-5-48 | 273 | 12·5 | 4,917 | 5·87 | 288·47 | Darnell Bros. .... | Muresk Commander (9599) |
| Colmyn Golden Marigold .... | Jersey | 80802 | 17-7-40 | 4-3 48 | 273 | 22·5 | 6,712 | 4·26 | 286·36 | C. H. Ironmonger .... | Clarendon Eyre Golden Oxford (13606) |

TABLE 8—PURE BRED HERD TESTING—*continued.*

Cows which completed test during the twelve months ended 30th June, 1949—*continued.*

| Name of Cow. | Breed. | Herd Book No. | Date of Birth. | Date of Entry to Test. | No. of Days in Test. | Weight of Milk on Last Day of Test. lb. | Weight of Milk for Period. lb. | Average Test. % | Weight of Butter Fat for Period. lb. | Owner. | Sire. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| COWS 5 YEARS OLD AND OVER—STANDARD 350 LB. BUTTER-FAT—*continued.* | | | | | | | | | | | |
| Radyr Park Dorothy 14th | do. | 95266 | 22-4-41 | 21-11-47 | 273 | 14·0 | 6,032 | 4·73 | 285·52 | L. M. Temple | Navua September Lad (14023) |
| Norinya Noreen | Jersey | 73200 | 6-11-37 | 24-9-47 | 240 | 10·0 | 6,360 | 4·46 | 283·87 | A. G. Eckersley | Juadine Prince (14760) |
| Mayvale Golden Buttercup 2nd | Guernsey | 10869 | 14-7-42 | 21-10-47 | 273 | 15·0 | 5,385 | 5·24 | 282·46 | R. J. Giles | Koojan Ideal's Discoverer (4968) |
| Denmark Dawn 2nd | do. | 5439 | 21-3-35 | 22-4-48 | 240 | 13·5 | 4,770 | 5·79 | 276·33 | Denmark Research Station | Koojan Golden Prosper (2283) |
| Denmark Lady Diana 2nd | do. | 12687 | 29-10-42 | 19-8-48 | 273 | 6·5 | 4,155 | 6·57 | 272·94 | do. do. | Denmark Dawn's Apollo (4785) |
| Clovelly Dainty | do. | 10241 | 5-8-41 | 20-8-48 | 210 | 10·0 | 6,240 | 4·31 | 270·42 | J. Cabassi | Koojan Monogram (4174) |
| Juadine Queen | Jersey | 87022 | 20-5-40 | 5-7-48 | 273 | 5·0 | 4,920 | 5·47 | 269·49 | Davies & Sons | Austral Park Wonderful Standard (12423) |
| Mereworth Starbright's Vanilla 3rd | do. | 77709 | 12-6-38 | 21-9-48 | 240 | 12·0 | 4,995 | 5·39 | 269·40 | B. Langridge | Mereworth Rye Duke (13935) |
| Murra Murra Easter's Marina | do. | 94625 | 20-4-42 | 6-4-48 | 273 | 12·5 | 4,987 | 5·36 | 267·40 | Mrs. M. A. Crute | Grantham Easter's Monarch (11656) |
| Denmark Golden Dawn | Guernsey | 4118 | 9-1-33 | 23-1-48 | 273 | 19·0 | 4,812 | 5·54 | 267·01 | Denmark Research Station | Koojan Golden Prosper (2283) |
| Carydale Roberta | A.I.S. | | 13-3-43 | 20-9-48 | 273 | 9·0 | 6,987 | 3·77 | 263·58 | M. H. Montgomery | Summerlea Robin Hood (5261) |
| Tirano Katoomba 2nd | do. | 47508 | 12-2-43 | 29-7-48 | 180 | 29.0 | 6,660 | 3.95 | 263.40 | J. H. Bensted & Co. | Chittering Prince (3800) |
| Lenmoor's Gentle | do. | 51741 | 22-5-41 | 5-8-48 | 210 | 9.5 | 6,735 | 3.91 | 263.37 | G. W. Marston | Wooroloo Union Jack (7662) |
| Capel Fairy 2nd | do. | 35368 | 10-8-41 | 24-7-48 | 180 | 15.0 | 6,115 | 4.30 | 263.13 | W. H. Doyle & Son | Valliere Commodore (6360) |
| Narrogin Colleen | do. | 38665 | 22-8-41 | 12-4-48 | 273 | 17.0 | 5,403 | 3.89 | 262.06 | Narrogin School of Agriculture | Westby Masterpiece (5403) |
| Valliere Primrose | do. | | 19-5-40 | 8-5-48 | 210 | 19.0 | 6.360 | 4.07 | 259.11 | W. K. Barnes | Alfa Vale Patrico (3649) |
| Mayvale Discoverer's Anemone | Guernsey | 10864 | 16-7-40 | 1-12-48 | 180 | 21.0 | 5,460 | 4.66 | 254.70 | R. J. Giles | Koojan Ideal's Discoverer (4968) |
| Mokine Empire Lily 35th | Jersey | 2860 | 29-6-42 | 2-10-47 | 240 | 9.5 | 4,920 | 5.15 | 253.38 | K. V. Gray | Selsey Hall Boy (15136) |
| Wooroloo Gladys 2nd | A.I.S. | | 3-2-42 | 6-3-48 | 240 | 9.0 | 5,670 | 4.39 | 249.21 | Wooroloo Sanatorium Farm | Wooroloo Red Baron (6412) |
| Claremont Biddy 71st | do. | 42585 | 18-11-42 | 26-6-48 | 210 | 11.0 | 6,495 | 3.82 | 247.86 | W. K. Barnes | Westby Monarch (5404) |
| Radyr Park Dorothy 22nd | Jersey | 3477 | 7-6-43 | 29-6-48 | 180 | 15.5 | 4,035 | 6.09 | 246.00 | F. Campbell | Navua September Lad (14023) |
| Mereworth Vanilla Queen 4th | do. | 94249 | 30-6-42 | 13-4-48 | 273 | 5.5 | 6,001 | 4.09 | 245.72 | B. Langridge | Clarendon Eyre Oxford Pioneer (11484) |
| Clovelly Primrose | Guernsey | 10245 | 30-6-42 | 19-7-48 | 240 | 10.0 | 4,980 | 4.93 | 245.55 | J. Cabassi | Koojan Monogram (4174) |
| Valliere Milkmaid | A.I.S. | 40824 | 15-4-40 | 7-5-48 | 240 | 11.0 | 6,480 | 3.79 | 245.37 | W. K. Barnes | Alfa Vale Patrico (3649) |
| Mereworth Starbright's Audrey 6th | Jersey | 7691 | 7-4-43 | 29-6-48 | 273 | 12.5 | 4,965 | 4.78 | 237.39 | B. Langridge | Clarendon Eyre Oxford Pioneer (11484) |
| Rutherwood Anne | Guernsey | 14480 | 7-5-43 | 21-8-48 | 273 | 13.0 | 4.704 | 4.96 | 233.23 | Misses E. & I. Rutherford | Rutherwood Robin Adair (5238) |
| Valliere Marigold | A.I.S. | 47695 | 2-7-43 | 30-7-48 | 180 | 10.5 | 5,265 | 4.38 | 230.43 | W. H. Doyle & Son | Wooroloo Noble 4th (6411) |
| Woodford Julie's Primrose | Guernsey | 15200 | 29-9-42 | 28-5-48 | 273 | 8.0 | 4,689 | 4.88 | 229.04 | W. R. Ferry | Yarraview Julian (4634) |
| Mereworth Butter Queen 4th | Jersey | 82784 | 18-8-39 | 27-12-47 | 273 | 10.5 | 4,411 | 5.19 | 228.94 | B. Langridge | Grantham Easter's Oxford (14677) |
| Murra Murra Easter's Maid | do. | 88033 | 4-5-40 | 15-8-48 | 150 | 14.5 | 3,900 | 5.87 | 228.90 | Mrs. M. A. Crute | Grantham Easter's Monarch (11656) |
| Rutherwood Fairy | Guernsey | 11447 | 28-11-41 | 2-9-48 | 273 | 9.0 | 4,287 | 5.32 | 227.99 | Misses E. & I. Rutherford | Rutherwood Sailor (5240) |
| Ferndale Jean 6th | A.I.S. | 30500 | 10-1-38 | 20-8-48 | 180 | 26.0 | 6,720 | 3.36 | 225.84 | G. W. Marston | Tabbagong Hinkler (261) |
| Mereworth Oxford Gay | Jersey | | 12-5-43 | 18-8-48 | 210 | 13.5 | 4,695 | 4.79 | 225.08 | B. Langridge | Clarendon Eyre Oxford Pioneer (11484) |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Wooroloo Greta | A.I.S. | 48108 | 26-12-42 | 11-8-48 | 240 | 8.0 | 5,190 | 4.25 | 220.67 | Wooroloo Sanatorium Farm | Berry Rufus 2nd (6570) |
| Carydale Golden Gem | Jersey | 91110 | 15-6-41 | 6-8-48 | 150 | 22.5 | 4,500 | 4.89 | 220.41 | G. Layman | Clarendon Eyre Golden Oxford (13606) |
| Wooroloo Doreen 5th | A.I.S. | 41176 | 22-3-42 | 24-2-48 | 273 | 11.0 | 5,223 | 4.20 | 219.76 | Wooroloo Sanatorium Farm | Berry Rufus 2nd (6570) |
| Brackenhurst Queen | do. | | 15-10-38 | 3-11-47 | 240 | 8.5 | 6,600 | 3.21 | 217.50 | G. W. Marston | Thornleigh Champagne (930) |
| Juadine Julienne 3rd | Jersey | 2119 | 19-8-43 | 24-9-48 | 180 | 13.5 | 4,050 | 5.34 | 216.31 | B. Langridge | Juadine Northwood Beau (19670) |
| Wooroloo Polly 3rd | A.I.S. | 48127 | 6 6-43 | 5-10 48 | 210 | 5.0 | 4.590 | 4.58 | 210.27 | Wooroloo Sanatorium Farm | Berry Rufus 2nd (6570) |
| Brackenhurst Queen | A.I.S. | | 15-10-38 | 9-10-48 | 150 | 16.0 | 5,685 | 3.63 | 206.61 | G. W. Marston | Thornleigh Champagne (930) |
| Mereworth Starbright's Queen 5th | Jersey | | 9-5-43 | 6-7 48 | 240 | 9.0 | 4,200 | 4.86 | 204.21 | B. Langridge | Grantham Oxford Standard (18571) |
| Mokine Empire Lily 35th | do. | 2860 | 29-6-42 | 17 10-48 | 273 | 7.0 | 4,536 | 4.43 | 201.08 | K. V. Gray | Selsey Hall Boy (15136) |
| Camden Athena | do. | 91040 | 30-7-41 | 27 5-48 | 240 | 5.0 | 3,300 | 6.09 | 200.94 | T. O. Abbott | Greenmount Golden Bobbie (18578) |
| Mokine Empire's Twylish 15th | do. | 99412 | 1-4-43 | 15-7-48 | 273 | 5.5 | 3,496 | 5.66 | 197.94 | Davies & Sons | Mokine Brigadier (18799) |
| Capel Green Princess | A.I.S. | 35371 | 22-8-41 | 7 7 48 | 150 | 19.5 | 4,635 | 4.12 | 191.28 | W. H. Doyle & Son | Monks Green Chummy (5971) |
| Wooroloo Rose Marie 3rd | do. | 48134 | 12-1-43 | 13 8-48 | 210 | 7.0 | 4,575 | 4.18 | 191.25 | Wooroloo Sanatorium Farm | Berry Rufus 2nd (6570) |
| Mayvale Discoverer's Buttercup 2nd | Guernsey | | 14-7-42 | 30 11-48 | 120 | 22.5 | 4,275 | 4.45 | 190.45 | R. J. Giles | Koojan Ideal's Discoverer (4968) |
| Glanavon Dahlia 17th | A.I.S. | | 21-11-42 | 29 1-48 | 180 | 24.0 | 4,890 | 3.81 | 186.12 | D. Bevan & Sons | Blacklands Monarch's Commander (1877) |
| Capel Lottie 3rd | do. | 42456 | 1-10-42 | 7-8 48 | 150 | 17.5 | 4,035 | 4.56 | 183.96 | W. H. Doyle & Son | Valliere Commodore (6360) |
| Casterton Sunbeam | Guernsey | 10237 | 1-3 42 | 16-10-48 | 120 | 28.5 | 3,855 | 4.58 | 176.67 | J. R. Giles | Casterton Illustrious Gem (4763) |
| Clovelly Margaret | Guernsey | 6929 | 20-11-37 | 13-5-48 | 210 | 15.0 | 3,780 | 4.66 | 176.22 | J. Cabassi | Nornabank Brian (3640) |
| Grantham Easter Rye 9th | Jersey | 81610 | 12-7-39 | 8-3-48 | 273 | 10.0 | 3,075 | 5.67 | 174.51 | A. Tomerini | Clarendon Eyre Oxford Pioneer (11484) |
| Woodford Gladys | Guernsey | 15199 | 23-3-43 | 23-5-48 | 120 | 26.0 | 3,720 | 4.64 | 172.62 | W. R. Ferry | Yarraview Clarinet 2nd (4629) |
| Mayvale Rosy Aster | do. | 10870 | 27-9-40 | 17 12-48 | 120 | 21.0 | 3,450 | 4.77 | 164.61 | R. J. Giles | Denmark Rosy Outlook (4017) |
| Grass Vale Nora's Maid | Jersey | 98527 | 9-9-41 | 29-6-48 | 90 | 39.0 | 3,630 | 4.47 | 162.36 | R. H. Rose & Son | Mornmoot Northwood Beau (17798) |
| Narrogin Daisy Bell | A.I.S. | 38665 | 10-10-40 | 16-3-48 | 210 | 13.0 | 4,410 | 3.65 | 161.19 | Narrogin School of Agriculture | Westby Masterpiece (5403) |
| Muresk Dame Enid | Guernsey | 11061 | 17-5-42 | 6-1-48 | 180 | 11.5 | 3,870 | 4.08 | 158.01 | R. J. Giles | Muresk Arthur (4338) |
| Grantham Dreaming Fairy 2nd | Jersey | 76596 | 20-4-39 | 14-7-48 | 180 | 16.0 | 3,285 | 4.78 | 156.96 | A. Tomerini | Clarendon Eyre Oxford Pioneer (11484) |
| Mayvale Golden Diana | Guernsey | 13663 | 6-9 42 | 30-11 47 | 240 | 7.0 | 3.630 | 4.29 | 155.70 | R. J. Giles | Koojan Ideal's Discoverer (4968) |
| Grass Vale Magnolia 4th | Jersey | 86645 | 23-11-41 | 17-5 48 | 60 | 51.5 | 3,000 | 5.18 | 155.40 | R. H. Rose & Son | Mornmoot Northwood Beau (17798) |
| Grantham Beautiful Carnation | do. | 92702 | 3-2-42 | 12-8-48 | 150 | 21.5 | 3,720 | 4.13 | 153.73 | A. Tomerini | Rosecliffe Marchalong (15904) |
| Denmark Mary's Bonnie | Guernsey | 10295 | 22-7-41 | 13-3-48 | 150 | 15.5 | 3,255 | 4.62 | 150 54 | Denmark Research Station | Denmark Lady's Goldseeker (4799) |
| Mayvale Rosy Aster | do. | 10870 | 27-9-40 | 2-12-47 | 240 | 10.0 | 3,350 | 4.44 | 148.89 | R. J. Giles | Denmark Rosy Outlook (4017) |
| Wooroloo Ena | A.I.S. | 48101 | 15-1-43 | 6-8-48 | 90 | 32.0 | 3,630 | 3.91 | 142.20 | Wooroloo Sanatorium Farm | Berry Rufus 2nd (6570) |
| Radford Park Poppy Queen | Jersey | 95268 | 9-9-40 | 30-8-48 | 180 | 4.0 | 2,700 | 5.19 | 140.19 | Radford Park Co. | Mokine Dunce (11896) |
| Lenmoor Rosy | A.I.S. | 45032 | 18-8-43 | 15-9 48 | 180 | 9.0 | 3,525 | 3.77 | 133.05 | W. K. Barnes | Ferndale Radiant (5729) |
| Kapara Duchess | Jersey | 93815 | 14-9-42 | 15-5-48 | 90 | 33.0 | 2,760 | 4.78 | 131.94 | D. Bradford | Congelin Mandarin (14542) |
| Tipperary Pretty Maid 3rd | A.I.S. | 47499 | 7-10-43 | 2-1-49 | 60 | 49.0 | 3,150 | 4.10 | 129.24 | W. G. Burges | Tipperary Ace (6336) |
| Rosella Sweetheart | Guernsey | 11429 | 30-7-40 | 8-7-48 | 120 | 16.5 | 2,820 | 5.08 | 127.44 | Darnell Bros. | Muresk Paul (4356) |
| Lenmoor's Roma | A.I.S. | 45031 | 16-8-43 | 15-9-48 | 180 | 6.0 | 3,405 | 3.65 | 124.55 | W. K. Barnes | Ferndale Radiant (5729) |
| Camden Arachne | Jersey | 80635 | 9-9-39 | 24-8-48 | 180 | 4.5 | 2,405 | 5.12 | 123.21 | K. V. Gray | Greenmount Golden Sultan (14688) |
| Rosella Duchess 2nd | Guernsey | 9310 | 7-5-39 | 31-7-48 | 90 | 15.5 | 1,980 | 6.05 | 119.79 | Darnell Bros. | Muresk Paul (4356) |
| Brookfield's Bonnie Blossom | do. | 5319 | 15-8-34 | 22-7-48 | 120 | 15.5 | 2,265 | 5.26 | 119.25 | do. | Koojan Lord Barklay (1031) |
| Wooroloo Sunlady 5th | A.I.S. | 48141 | 23-4-43 | 13-9-48 | 60 | 41.0 | 2,790 | 3.99 | 111.56 | Wooroloo Sanatorium Farm | Berry Rufus 2nd (6570) |
| Koojan Ace's Diplomat | Guernsey | 13489 | 28-8-43 | 6-10-48 | 60 | 30.0 | 2,160 | 4.84 | 104.58 | A. W. Padbury | Homestead Ace (Imp.) (1631) |

TABLE 8—PURE BRED HERD TESTING—*continued.*

Cows which completed test during the twelve months ended 30th June, 1949—*continued.*

| Name of Cow. | Breed. | Herd Book No. | Date of Birth. | Date of Entry to Test. | No. of Days in Test. | Weight of Milk on Last Day of Test. lb. | Weight of Milk for Period. lb. | Average Test. % | Weight of Butter Fat for Period. lb. | Owner. | Sire. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| COWS 5 YEARS OLD AND OVER—STANDARD 350 LB. BUTTER-FAT—*continued.* | | | | | | | | | | | |
| Juadine Jewell 4th .... .... | Jersey | .... | 4-10-43 | 15-10-48 | 60 | 28.0 | 1,830 | 5.64 | 103.37 | F. Campbell .... .... | Juadine Northwood Beau (19670) |
| Rutherwood Dame .... .... | Guernsey | 7825 | 9-7-36 | 12-8-48 | 120 | 22.0 | 2,700 | 3.78 | 102.24 | G. Brenton .... .... | Denmark Damon (2519) |
| Radford Park Marigold .... | Jersey | 95259 | 10-8-41 | 6-5-48 | 240 | 4.0 | 1,140 | 5.28 | 60.18 | Radford Park Co. .... | Mokine Dunce (11896) |
| Capel Beauty .... .... | A.I.S. | 35365 | 15-6-41 | 16-7-48 | 60 | 29.0 | 1,740 | 3.26 | 56.79 | W. H. Doyle & Son .... | Valliere Commodore (6360) |
| Mereworth Oxford Makanora | Jersey | .... | 28-6-43 | 17-3-49 | 30 | 32.5 | 975 | 5.10 | 49.80 | B. Langridge .... | Clarendon Eyre Oxford Pioneer (11484) |
| Radyr Park Dorothy 23rd .... | do. | 3478 | 19-6-43 | 16-11-48 | 30 | 35.0 | 1,050 | 3.88 | 40.80 | F. Campbell .... .... | Radyr Park September Lad (823) |
| Mereworth Oxford Vanilla 3rd | do. | 99301 | 30-4-43 | 15-2-49 | 30 | 20.0 | 600 | 4.97 | 29.82 | B. Langridge .... | Clarendon Eyre Oxford Pioneer (11484) |

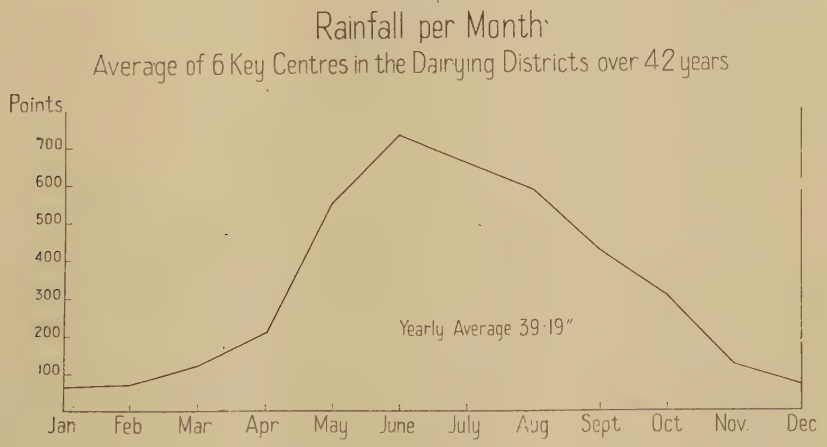
# Influence of Month of Calving on Length of Lactation and Average Yield of Butterfat

## GRADE HERD RECORDING.

M. Cullity, Superintendent of Dairying.

DAIRYING in Western Australia is confined almost entirely to the South-Western portion of the State which experiences a Mediterranean type of climate. With the season breaking in April, one experiences heavy winter rains, followed by mild springs and dry summers. The distribution of rainfall throughout the year can be seen from Graph 1, which shows rainfall per month, the average of six key centres in the dairying districts. Furthermore rainfall is very regular in its monthly trend from year to year with the result that farmers, profiting by the experience and technical advances gained since the beginning of the century, now practice a definite pattern of farming.

Graph I



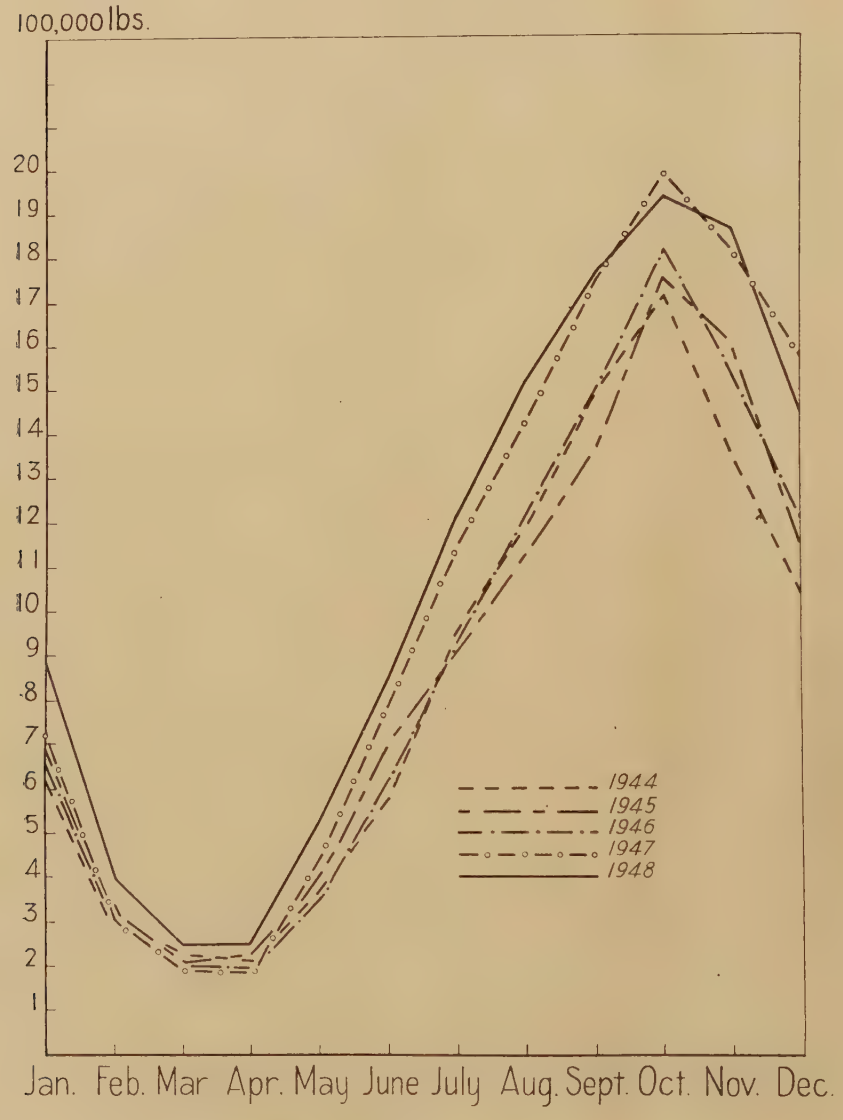

The early practice of "coast" farmers was to calve their cows down in August or September with the flush of spring feed. As the feed supply dwindled in the summer, cows were dried off and turned out to the coast to fend for themselves. Then, after a long dry spell of six to nine months, the cows were again brought into lactation. With the introduction of subclover and the practice of topdressing with super in the '20's, new possibilities were opened to the industry. Cattle numbers increased rapidly and gradually cows were calved earlier. Fodder conservation commenced and made possible the milking of cows into the summer months further increasing the lactation period.

The commercial dairy farmer now seeks to calve cows down in the autumn, and aims at freshening cows every twelve months with a dry spell of two months or more in late summer. This tendency can be seen from Graph 2, which shows monthly production of butterfat over a number of years, and for the year 1948-49

separately. It will be seen that production reaches a low in February, March and April and commences to rise as cows are freshened in the autumn, reaching a peak in October-November when almost all cows are in milk.

Graph II

Butterfat Production per Month 1944-48



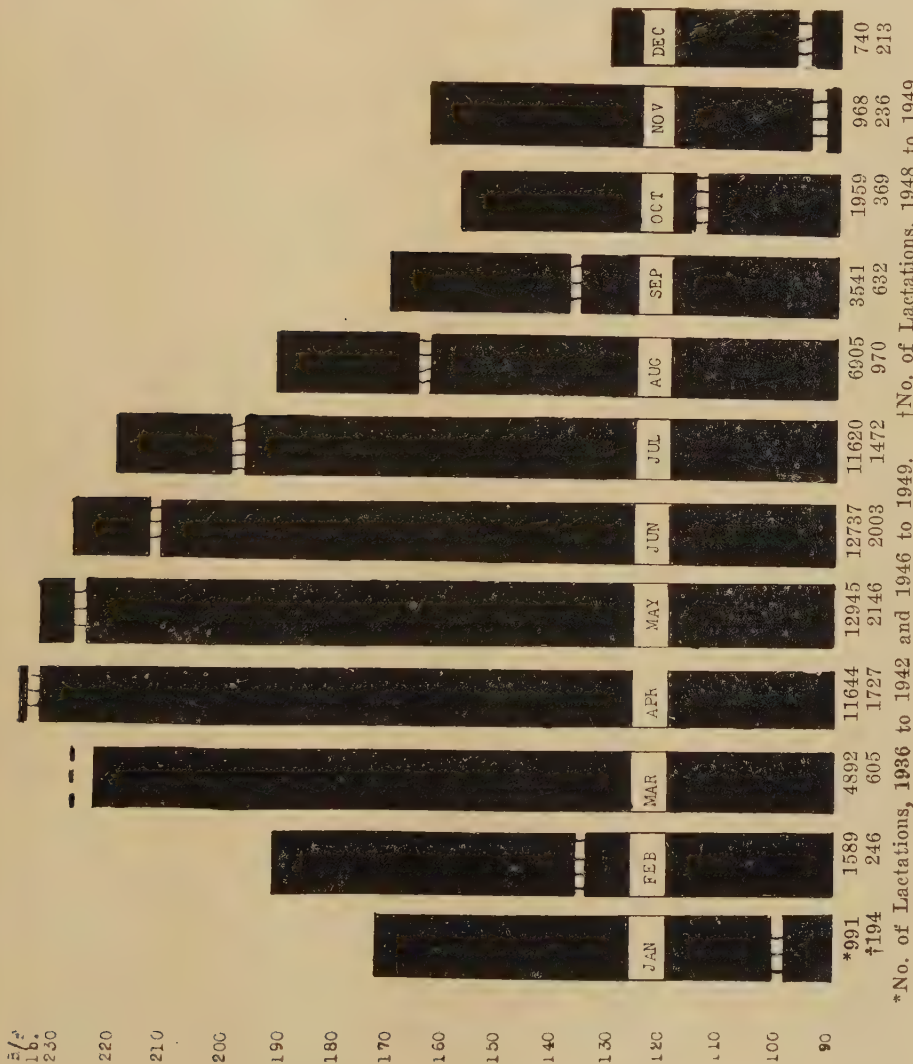

*Production According to Month of Calving.*

With the regular seasonal trend of rainfall and green feed resultant upon it, one would expect to find some trend in average yields of milk and butterfat according to month of calving. This has been investigated by the Department and data

have been accumulated since 1936, covering 70,531 lactations over 10 years. Findings have been referred to in reports on Grade Herd Recording in earlier issues of this Journal and are brought up to date in the present article. Details are given in Table 1, and the accompanying Graph 3.

GRAPH 3.

Butterfat Production with Relation to Month of Calving, 1936 to 1942 and 1946 to 1949.




*No. of Lactations, 1936 to 1942 and 1946 to 1949. †No. of Lactations, 1948 to 1949.

TABLE 1.

PRODUCTION OF COWS ACCORDING TO MONTH OF CALVING.

| | 1948-49. | | 7 years, 1936-42, and 3 years, 1946-49. | |
|---|---|---|---|---|
| | No. of Lactations. | Average Butterfat. lb. | No. of Lactations. | Average Butterfat. lb. |
| January | 194 | 101.5 | 991 | 172.8 |
| February | 246 | 147.7 | 1,589 | 193.1 |
| March | 605 | 226.5 | 4,892 | 224.6 |
| April | 1,727 | 237.5 | 11,644 | 239.3 |
| May | 2,146 | 229.0 | 12,945 | 235.4 |
| June | 2,003 | 215.4 | 12,737 | 229.6 |
| July | 1,472 | 200.6 | 11,620 | 221.4 |
| August | 970 | 167.6 | 6,905 | 192.7 |
| September | 632 | 139.5 | 3,541 | 171.3 |
| October | 369 | 116.2 | 1,959 | 159.5 |
| November | 236 | 95.4 | 968 | 165.5 |
| December | 213 | 98.8 | 740 | 132.5 |
| Totals | 10,813 | .... | 70,531 | .... |

*Percentage of Cows Calving Each Month.*

The number of cows calving in the optimum period (March-July) can be seen from Table 2, which shows the percentage of cows calving in each month for the State as a whole in the three years 1936-37, 1940-41 and 1948-49. The year 1948-49 is further divided into two sections (i) Brunswick and all units further North and (ii) all units South of Brunswick. It will be seen that the monthly percentage is very constant both from one year to another and also from one district to another. In all cases approximately 75 per cent. of cows freshen in the five months March-July.

Table 2 shows also that approximately 25 per cent. of cows do not calve in this period. The gradual decline in the percentage calving each month after July may be taken as an indication that efforts were continuing to get the cows in calf.

TABLE 2.

| District | Brunswick and North. | South of Brunswick. | Whole State. | Whole State. | Whole State. |
|---|---|---|---|---|---|
| Year | 1948-49. | 1948-49. | 1936-37. | 1940-41. | 1948-49. |
| Month— | | | | | |
| January | 2.4 | 1.7 | 2.0 | 1.3 | 1.8 |
| February | 4.3 | 1.9 | 2.9 | 2.6 | 2.3 |
| March | 4.4 | 5.9 | 7.2 | 8.2 | 5.7 |
| April | 19.3 | 15.5 | 14.9 | 16.4 | 15.2 |
| May | 22.3 } 74.5 | 19.4 } 73.4 | 17.4 } 75.0 | 17.2 } 75.2 | 19.9 } 73.1 |
| June | 17.1 | 18.7 | 17.7 | 17.0 | 18.6 |
| July | 11.4 | 13.9 | 17.8 | 16.4 | 13.7 |
| August | 5.7 | 9.5 | 9.5 | 9.9 | 9.1 |
| September | 4.8 | 6.0 | 5.3 | 5.1 | 5.9 |
| October | 3.0 | 3.5 | 2.8 | 2.7 | 3.5 |
| November | 2.4 | 2.1 | 1.3 | 1.9 | 2.2 |
| December | 2.9 | 1.8 | 1.0 | 1.3 | 1.9 |

It is probable that failure to conceie at first, or subsequent services, is the main cause of so many cows freshening outside the optimum period, and that closer attention by dairy farmers to the health and management of the herd at mating time may bring more satisfactory results. Many cows fail to conceive at early service owing to one or other type of infection of the genital tracts. The regular use of an after calving pessary for all cows is a precaution which is suggested to all farmers. A mixture of iodoform and boracic acid in equal parts by weight in a No. 10 gelatine capsule is most effective.

Proper control of the bull will permit an intelligent supervision of mating. If best results are to be expected, the bull should not be permitted to run with the herd at mating time otherwise there is danger of delayed conception on the part of many cows passing unnoticed. In larger herds there is also the possibility of the bull being overworked.

*Length of Lactation.*

Length of a lactation is an important contributing factor to total production of that lactation. If, as is considered desirable, cows are being freshened every twelve months, then the longer the lactation up to ten months, the greater the yield of that lactation. Furthermore the dry spell of two months should be sufficient for the cow to regain condition and commence the next lactation at a high level, provided ample feed is available during the dry spell. Many herds fall short of this length of lactation as can be seen from Table 3, which shows the average length of lactation for each unit according to month of calving for the period 1945-47.

It will be seen that districts vary somewhat, Metricup unit having the longest average length of lactation (8.0 months) and Vasse-Jindong the shortest (5.9 months). This average includes all lactations of 90 days or more whatever the cause of discontinuance of test at a later date. The average length of lactation over all districts is shown on the bottom line of the table. There is a definite trend acording to month of calving, the length of lactation being greatest in cows calved in March and least in cows calved in October. This is illustrated in histogram form in Graph 4.

TABLE 3.

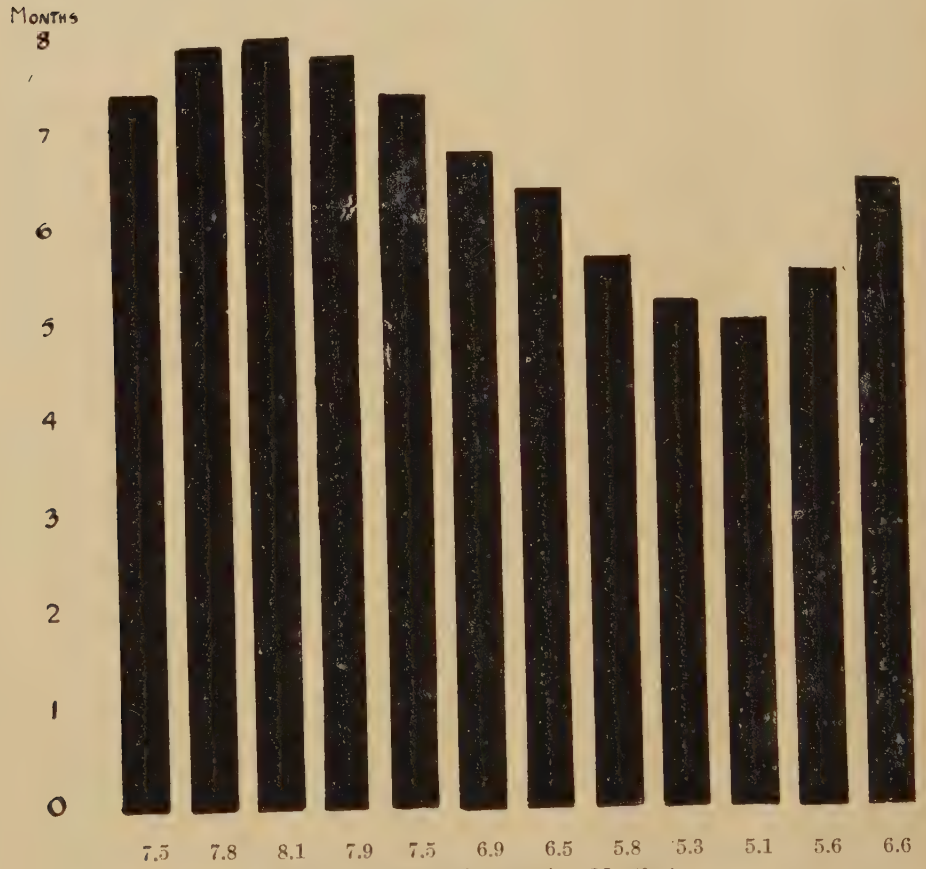
DURATION OF LACTATION IN RELATION TO MONTH OF CALVING 1945-47.

| Unit. | Average Duration (in months) of Lactation Period of Cows Calving in Month of : | | | | | | | | | | | | Unit Yearly Average. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Jan. | Feb. | Mar. | April. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | |
| | | | | | | | | | | | | | Months. |
| Metricup .... | 8.0 | 8.1 | 8.5 | 8.4 | 8.2 | 7.7 | 7.9 | 6.6 | 6.4 | 4.5 | 5.0 | 7.7 | 8.0 |
| Waroona .... | 8.0 | 8.2 | 8.3 | 8.3 | 7.9 | 7.8 | 7.7 | 7.1 | 7.5 | 7.5 | 8.5 | 8.0 | 7.9 |
| Margaret River .... | 7.7 | 6.9 | 8.3 | 8.7 | 8.0 | 8.3 | 7.8 | 6.7 | 6.5 | 7.0 | 7.0 | 7.5 | 7.8 |
| Cowaramup, S. .... | 7.7 | 8.0 | 8.6 | 8.2 | 8.4 | 7.8 | 7.4 | 6.5 | 5.9 | 5.2 | 4.5 | 7.0 | 7.7 |
| Cowaramup, N. .... | 8.0 | 8.2 | 8.4 | 8.2 | 7.9 | 7.3 | 7.2 | 6.4 | 6.0 | 6.0 | 7.1 | 6.0 | 7.6 |
| Pemberton .... | 9.0 | 9.0 | 8.7 | 8.3 | 8.4 | 8.2 | 7.7 | 6.6 | 5.5 | 5.3 | 4.7 | 4.0 | 7.3 |
| Balingup .... | .... | 7.7 | 8.2 | 8.2 | 8.0 | 7.1 | 6.3 | 5.6 | 5.0 | 4.2 | 4.0 | .... | 7.2 |
| Harvey .... .... | 7.6 | 8.0 | 8.0 | 7.3 | 7.5 | 7.4 | 6.8 | 6.1 | 6.2 | 6.0 | 6.2 | 6.7 | 7.2 |
| Albany .... .... | 5.0 | 7.6 | 8.0 | 7.6 | 7.7 | 6.6 | 6.2 | 7.1 | 6.5 | 5.8 | 7.7 | 6.5 | 7.0 |
| Donnybrook .... | 9.0 | 7.5 | 8.2 | 8.1 | 7.1 | 7.0 | 5.7 | 5.7 | 5.0 | 5.9 | 5.7 | 7.8 | 6.9 |
| Northcliffe .... | 6.8 | 7.5 | 8.5 | 7.8 | 7.5 | 7.7 | 6.9 | 6.9 | 5.3 | 4.8 | 4.5 | 5.4 | 6.9 |
| Mt. Barker .... | 6.3 | 8.4 | 8.0 | 7.7 | 7.5 | 7.0 | 6.6 | 6.0 | 5.2 | 4.8 | 4.2 | 4.2 | 6.8 |
| Pinjarra .... .... | 8.0 | 8.0 | 8.2 | 7.6 | 7.3 | 6.2 | 6.0 | 5.4 | 4.7 | 4.5 | .... | 8.0 | 6.8 |
| Forest Grove .... | 7.3 | 7.6 | 7.6 | 7.4 | 7.0 | 6.7 | 6.2 | 5.1 | 5.0 | 4.1 | 4.2 | 7.1 | 6.6 |
| Manjimup .... | 6.3 | 7.4 | 8.7 | 8.6 | 7.8 | 7.0 | 6.6 | 6.2 | 5.5 | 4.5 | 5.0 | 4.0 | 6.6 |
| Bridgetown .... | 6.0 | 7.1 | 8.0 | 8.0 | 7.2 | 6.4 | 5.7 | 4.7 | 4.3 | 3.8 | 3.0 | 7.0 | 6.5 |
| Nannup .... .... | 6.3 | 8.7 | 9.0 | 8.3 | 8.0 | 6.4 | 6.0 | 4.8 | 4.1 | 3.6 | 4.0 | 8.0 | 6.5 |
| Brunswick .... | 7.2 | 7.0 | 7.7 | 7.6 | 7.0 | 6.8 | 6.6 | 5.8 | 4.8 | 5.0 | 5.6 | 5.1 | 6.5 |
| Wilga .... .... | 4.0 | 6.5 | 8.0 | 7.3 | 7.1 | 6.0 | 5.6 | 5.0 | 4.4 | 3.8 | 3.0 | 7.0 | 6.0 |
| Vasse-Jindong .... | 4.0 | 6.5 | 7.3 | 7.0 | 6.8 | 6.0 | 5.7 | 4.9 | 4.4 | 3.9 | 3.5 | 4.0 | 5.9 |
| All Units .... | 7.4 | 7.8 | 8.1 | 7.9 | 7.5 | 6.9 | 6.5 | 5.8 | 5.3 | 5.1 | 5.6 | 6.6 | 6 9 |

The importance of keeping cows in production for the full 273 days can be seen from Table 4 which compares the production of cows milking for 273 days with the average butterfat production of all cows in the unit. It will be seen that cows milked for the full period produced 280 lb. butterfat compared to 215 lb. for all cows and 203 lb. for cows milking for a shorter period than 273 days.

GRAPH 4.

Duration of Lactation in Relation to Month of Calving, 1945 - June, 1947.




(Average Length of Lactation Months.)

Average Length of Lactations for all Months, 6.9.

There are some interesting features associated with these results. The average length of lactation is surprisingly short, even for those cows which calve during the optimum months of March, April, May, June and July, viz., 8.1, 7.9, 7.5, 6.9 and 6.5 months respectively. There is little doubt that this is associated with a tendency to regard early calving as a means of avoiding feeding cows in the summer months in order to maintain milk flow. A cow calving early in April should be kept in milk till early in January for a full 273-day lactation. Those calving in May, June and July, need to stay in production until February, March

TABLE 4.

COWS COMPLETING LACTATION.

| | Unit. | Percentage of Cows completing Lactation. * | Cows completing 273 days. | | Unit Butterfat Average. |
|---|---|---|---|---|---|
| | | | Percentage. | Butterfat Average. | |
| | | | | lb. | lb. |
| F | Metricup | 56 | 13 | 338.27 | 186.76 |
| L | Donnybrook | 78 | 22 | 323.72 | 225.26 |
| Z | Armadale | 42 | 14 | 316.29 | 206.28 |
| G | Cowaramup, North | 60 | 40 | 314.58 | 257.82 |
| H | Cowaramup, South | 60 | 33 | 303.70 | 241.16 |
| X | Northcliffe | 73 | 13 | 301.00 | 219.60 |
| J | Rosa Brook | 67 | 34 | 296.70 | 255.78 |
| C | Harvey | 80 | 30 | 289.70 | 222.90 |
| A | Pinjarra | 80 | 20 | 284 84 | 212.10 |
| W | Denmark | 46 | 69 | 282.08 | 251.65 |
| Y | Scotsdale | 71 | 40 | 280.72 | 210.84 |
| T | Albany | 78 | 35 | 280.70 | 215.29 |
| D | Brunswick | 64 | 24 | 280.00 | 225.27 |
| U | Nannup | 95 | 27 | 276.60 | 218.31 |
| P | Pemberton | 89 | 36 | 274.75 | 207.44 |
| B | Waroona | 46 | 40 | 273.07 | 230.79 |
| V | Vasse-Jindong | 64 | 12 | 271.74 | 189.93 |
| M | Balingup | 98 | 26 | 266.42 | 216.50 |
| E | Ruabon | 90 | 27 | 265.76 | 208.93 |
| I | Margaret River | 62 | 41 | 265.59 | 228.70 |
| K | Forest Grove | 89 | 30 | 264.52 | 224.88 |
| S | Mt. Barker | 90 | 24 | 255.22 | 197.68 |
| O | Manjimup | 84 | 16 | 247.80 | 184.00 |
| N | Bridgetown | 94 | 11 | 236.69 | 182.80 |
| R | Wilga | 69 | 9 | 231.80 | 172.83 |
| | Averages | 74 | 26 | 280.26 | 214.71 |

* *i.e.*, 273 days or drying off naturally in a lesser period. Average Butterfat of cows not completing full 273 days :—203.55 lb.

and April respectively for a full period. For the purpose of comparison and assuming all cows calving in April, May, June and July calved on the first of each month, the average lactation period would have concluded on 27th November, 15th December, 27th December, 15th January.

The fallacy of regarding early calving as a means of avoiding the additional labour involved in providing feed for the summer months without losing production may also be seen from a glance at Table 2 in which it is shown that a considerable proportion of cows calve later than the optimum period, e.g. in 1948-49 for every 100 cows the following would need adequate feeding throughout the summer to achieve a full lactation period.

| | |
|---|---|
| Calving in August .. .. .. | 9.1 |
| Calving in September .. .. .. | 5.9 |
| Calving in October .. .. .. | 3.5 |
| Calving in November .. .. .. | 2.2 |
| Calving in December .. .. .. | 1.9 |
| Calving in January .. .. .. | 1.8 |
| Calving in February .. .. .. | 2.3 |
| | 26.7 |

Owing to the lack of green pasture in the summer dry period, cows can be kept in milk only when ample supplies of water, silage, clover hay and concentrates are available.

While there must be provision for a farmer to have a holiday from the routine operations of the farm once per year, it may be pertinent to point out that in the investigations into the cost of production of butterfat, the greatest single factor is labour. One of the simplest and most direct methods of reducing the incidence of this cost, that is achieving greater output per man, is by producing larger yields per cow. The extension of the lactation period of the cows is an easy way of doing this.

It may be achieved by careful calving so that the lactation period will coincide with the growing pasture. Cows calving in March will give a complete 273 days period by December. Practical difficulties may prevent all cows calving in the one month, but an endeavour to have them come in in March will reduce the number calving during the months proved to be unsuitable for high production. Early calving, however, must be accompanied by good husbandry in the provision of ample feed (silage, clover hay, green crops), and by careful attention to the animals during the pre-calving period.

# THE FARM SEPARATOR AND VARIATION OF CREAM TESTS

V. B. Monti, Dairy Instructor.

EVERYONE associated with dairying is familiar with the appearance of the modern centrifugal separator, but how many have taken the time to study the factors influencing the efficiency of this machine.

*Mounting.*

The Separator should be set on a solid level foundation, preferably concrete for ease of cleansing. This combination of solid and level setting ensures that the machine will run without vibration, thus minimising strain on the wearing parts, ensuring longer life, efficient skimming with a minimum of power, and freedom from accidents.

*Maintenance.*

As with all machines, especially those of a high speed nature, efficient lubrication is of paramount importance. In oil bath types it often happens that through a leaky seal in the neck bearing, water or milk enters the sump, reducing the lubricating ability of the oil. This defect should be remedied as soon as noticed. The height of the oil in the sump should be checked regularly and any deficiency made good, and the sump drained and refilled at least once a year.

Undue wear on the main spindle can occur through faulty or worn collar bearings, or a worn ball at the foot of the spindle. The ball at the bottom of the spindle should always be so adjusted as to give the cream outlet the recommended clearance above the bottom of the cream discharge pan, otherwise some cream may be thrown into the skim milk pan. In cases of excessive wear, the ball bearing should be renewed. Worn thrust bearings at the top of the spindle cause excessive vibration, disturbing the balance of the bowl. This can be rectified only by replacing the bearing and spring cage. The groove at the top of the spindle

and the pin in the bowl base should be checked for alignment and excessive wear. This is very necessary to ensure the perfect balance so essential to skimming efficiency.

To save strain and excessive wear on the machine, speed should be raised by hand before cutting in the power drive. With a small diameter pulley on the power drive, the belt is liable to slip as it becomes loose and this may be the cause of varying cream tests.

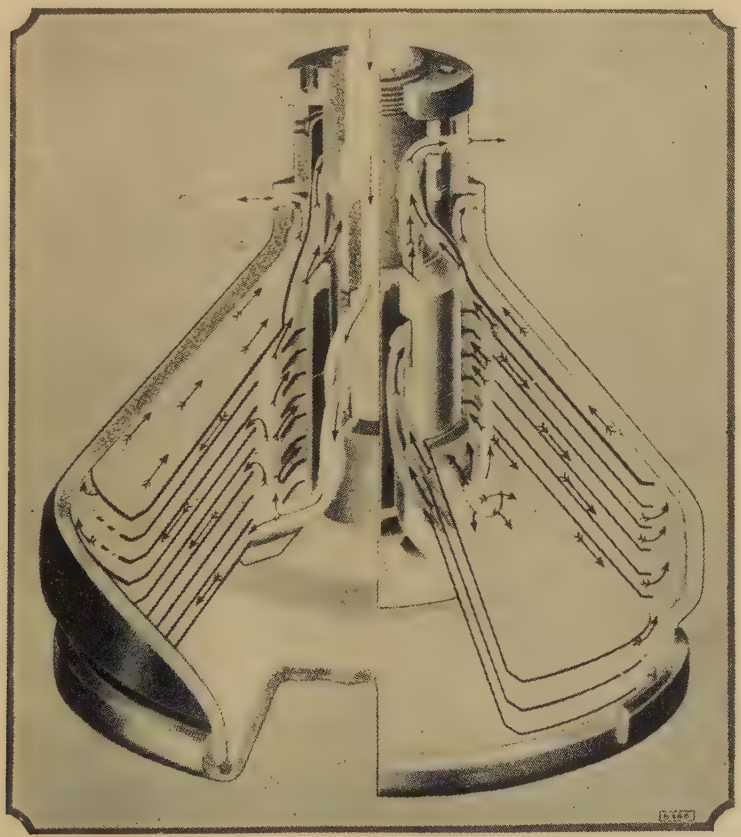
It is most essential that the separator runs smoothly, for this causes the layers of fluid in the bowl to arrange themselves correctly, i.e. cream in the centre and skim milk on the outside, thereby making their way to their respective outlets without interference, and ensuring complete separation.

If vibration occurs there is a mingling of the layers, with excessive loss of butterfat. Experiments have shown the loss to be five times as great when operating under adverse conditions.

*What Happens in the Bowl.*

The milk is divided into the components, skim milk and cream, by centrifugal force. The heavier skim milk is forced to the outer wall of the bowl and the lighter butterfat accumulates near the centre. It may not be readily realised that

Fig 1.



←—— = Whole Milk. ←—‹ = Cream. ←—« = Skim Milk.

the pressure on the wall of the separator bowl amounts to several tons. Knowing this, the necessity for perfect balance, and smooth running, is more easily understood and appreciated. The centrifugal force is assisted in its work by the internal construction of the bowl. The discs divide the milk into thin layers, and the incline of the discs and the holes in them assist in balancing the centrifugal force causing complete separation of the lighter and heavier fractions. See figure 1.

*Factors Influencing the Test of the Cream.*

The reasons for variations in the cream test provide a problem which causes much controversy between the farmer and the factory manager. They may be treated in the following order.

*Cream Screw.*

This regulates the proportion of skim milk to cream, and once it is set, all other factors being equal the separator will deliver the same proportion of cream to skim milk indefinitely. It should not be altered unless a consistently high or low test is being obtained, or for seasonal changes required in tests. Tampering with the cream screw will cause fluctuations in the test. It should be adjusted to give cream of the required consistency and allowed to remain in that position.

*Speed of the Machine.*

The separator is designed to give the most efficient service at a specified number of revolutions per minute. Below this speed separation is incomplete. Above it, no more efficient separation is gained, but a proportionately greater stress is set up in the machine owing to the greatly increased centrifugal force generated. Increased speed of the bowl above the normal will increase the test of the cream but will not affect the amount of butterfat reclaimed. See figure 2.

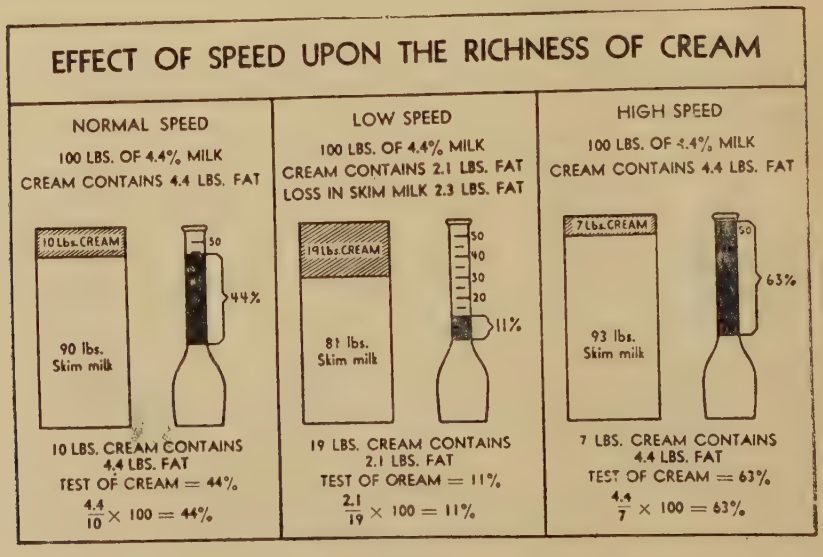



Fig. 2.

(After Hunziker.)

*Composition of Herd Milk.*

If the cream screw is set to deliver a definite proportion of cream to skim milk, the richer the milk separated, the more butterfat will be concentrated in the cream zone. Changes occur through cows drying off, fresh cows coming in, changes in feed and the culling of low producers. Assuming the cream screw is set to give 15 lb. cream to 85 lb. skim milk, the above changes will be reflected in the cream test. See Figure 3.

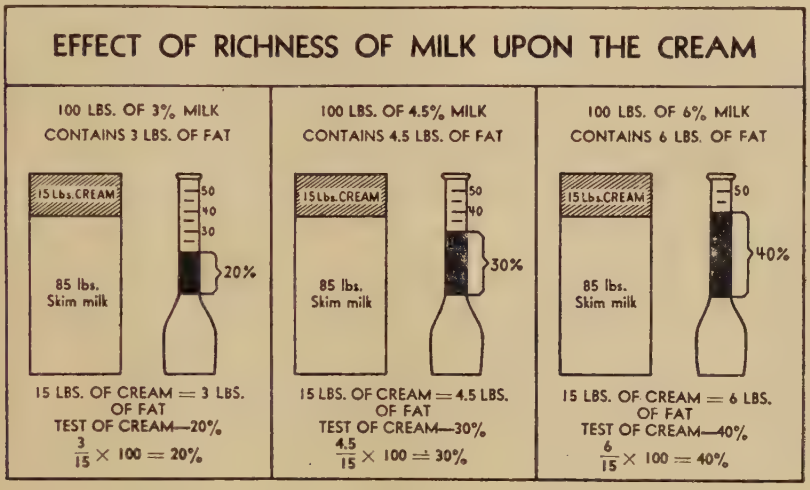

EFFECT OF RICHNESS OF MILK UPON THE CREAM
100 LBS. OF 3% MILK CONTAINS 3 LBS. OF FAT
15 Lbs. CREAM
85 lbs. Skim milk
50
40
30
20%
15 LBS. OF CREAM = 3 LBS. OF FAT
TEST OF CREAM—20%
3/15 × 100 = 20%
100 LBS. OF 4.5% MILK CONTAINS 4.5 LBS. OF FAT
15 Lbs. CREAM
85 lbs. Skim milk
50
40
30%
15 LBS. OF CREAM = 4.5 LBS. OF FAT
TEST OF CREAM—30%
4.5/15 × 100 = 30%
100 LBS. OF 6% MILK CONTAINS 6 LBS. OF FAT
15 Lbs. CREAM
85 lbs. Skim milk
50
40%
15 LBS. OF CREAM = 6 LBS. OF FAT
TEST OF CREAM—40%
6/15 × 100 = 40%

Fig. 3.

(After Hunziker.)

*Rate of Inflow.*

The rate of inflow of the milk will seriously affect the test because the machine is designed to work at a stated rate of intake; therefore, it is bad practice to try and operate it without a float or to allow the receiving bowl to run dry

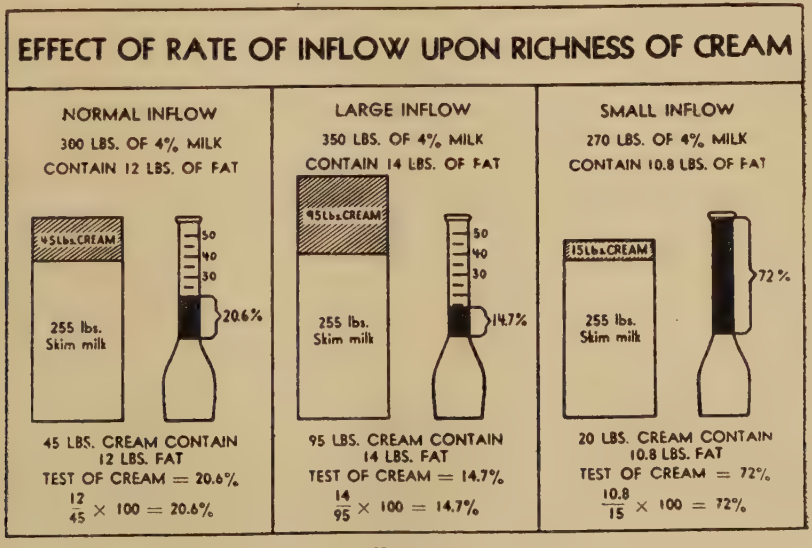

EFFECT OF RATE OF INFLOW UPON RICHNESS OF CREAM
NORMAL INFLOW
300 LBS. OF 4% MILK CONTAIN 12 LBS. OF FAT
45 Lbs. CREAM
255 lbs. Skim milk
50
40
30
20.6%
45 LBS. CREAM CONTAIN 12 LBS. FAT
TEST OF CREAM = 20.6%
12/45 × 100 = 20.6%
LARGE INFLOW
350 LBS. OF 4% MILK CONTAIN 14 LBS. OF FAT
95 Lbs. CREAM
255 lbs. Skim milk
50
40
30
14.7%
95 LBS. CREAM CONTAIN 14 LBS. FAT
TEST OF CREAM = 14.7%
14/95 × 100 = 14.7%
SMALL INFLOW
270 LBS. OF 4% MILK CONTAIN 10.8 LBS. OF FAT
15 Lbs. CREAM
255 lbs. Skim milk
72%
20 LBS. CREAM CONTAIN 10.8 LBS. FAT
TEST OF CREAM = 72%
10.8/15 × 100 = 72%

Fig. 4.

(After Hunziker.)

and be filled at intervals from the main reservoir on the milking machine. The bowl should be filled and the outflow balanced by a corresponding inflow from the main tank to maintain a constant level. Other factors being equal the effect of the rate of inflow is as illustrated in Figure 4.

*Temperature of Milk.*

The temperature of the milk may cause variation in the test and the completeness of separation. This was proved in a series of experiments by Hunziker in which the average loss of fat in the skim milk was .02 per cent. when separation took place at 90-95°F., and .75 per cent. when separated at 50-60°F. This amply demonstrates the value of separating as soon as possible after the milk is drawn, for it will then be in the most suitable condition.

*Flushing the Bowl.*

The amount of skim milk or water used to flush the separator bowl will also have an effect on the test depending on its volume in relation to the volume of cream. It is recommended that the bowl be flushed with skim milk, using as little as possible and a similar quantity each time.

*Cleanliness.*

Losses of butterfat are also experienced from a dirty bowl; therefore, from the economic as well as the sanitary point of view the thorough cleansing of the separator each time it is used is essential.

*Evaporation.*

Holding cream on the farm under normal conditions may slightly increase the test due to the evaporation of some of the moisture content; but it will not increase the total amount of butterfat contained therein, and as the cream ages the increased bacterial action will probably reduce the grade.

SUMMARY.

*To Keep the Machine in Good Mechanical Condition*:

(a) Install the separator correctly.
(b) Keep correctly adjusted.
(c) Lubricate regularly.

*The Cream Test can Vary Through*:

(a) Movement of the cream screw.
(b) Varying the speed of the machine.
(c) Variation in the composition of the herd milk.
(d) The rate of flow through the machine.
(e) The temperature of the milk.
(f) The amount and nature of the flushing agent used.
(g) The cleanliness of the separator bowl.
(h) Holding cream on the farm.

# CONTAGIOUS PUSTULAR DERMATITIS (SCABBY MOUTH) IN SHEEP

C. R. TOOP, Acting Chief Veterinary Surgeon.

CONTAGIOUS pustular dermatitis or scabby mouth is known to occur in most parts of the world. It affects both sheep and goats and is characterised by the formation of thick greyish-brown scabs on the lips and muzzle and sometimes around the coronets and on the skin of the udders of ewes suckling affected lambs.

It is caused by a filterable virus which is believed to gain entrance to the tissues through slight abrasions in the skin. In uncomplicated cases the disease runs a course of 3-4 weeks at the end of which time the scabs drop off and healing occurs.

Should a secondary infection with bacteria occur, however, healing is delayed and there is suppuration and ulceration of the underlying tissues. Sheep so affected may have difficulty in grazing and lose condition, while in young suckling lambs serious mortality may occur.

Recovery results in the development of a lasting immunity so that in flocks where outbreaks have previously occurred the disease is confined to young sheep and lambs.

Scabby mouth may be prevented by vaccination. A vaccine prepared from the dried scabs is used for this purpose, and is applied to the skin of the inner surface of the thigh after it has been lightly scarified with a suitable instrument. In flocks in which the disease is known to exist it is usually found convenient to vaccinate the lambs at the time of marking, and to adopt this practice as a routine procedure.

Contagious Pustular Dermatitis lesions on lips.

In Western Australia, scabby mouth is widely distributed existing both in the pastoral and agricultural areas where sporadic outbreaks may occur particularly during the drier months of the year. The disease for the most part, occurs in a mild form and is consequently not considered to be of serious economic importance.

In some other States, however, it has been responsible for many disputes and costly delays in shearing, owing to the reluctance of shearers to handle infected flocks. Contagious pustular dermatitis is communicable to man and the handling of affected sheep may result in the development of pustules on the hands and arms, due to the infection of cuts or abrasions by virus contained in the scabs. This condition is not very serious, nor does the risk of infection appear to be great and it could be eliminated entirely by culling all sheep showing evidence of the disease immediately prior to shearing.

*Cause.*

The disease is caused by a filterable virus and is highly contagious. The virus is contained in the dried scabs in which it is able to survive for long periods.

During recent investigations in New South Wales, it was shown that scabs which had been stored at room temperatures for more than 15 years were still infective. The infection is believed to enter the skin through slight abrasions resulting from grazing on dry or harsh vegetation such as stubble, scrub and grass with sharp awns.

Experimentally the disease may be readily transmitted to susceptible sheep by lightly scarifying the skin and applying a suspension prepared from dried scabs to the scarified area. After an interval of about three days the skin shows evidence of swelling and reddening which is followed by pustule and scab formation, the scabs finally attaining a thickness of ¼ to ½ an inch. In three to four weeks, the scabs commence to lift and become detached, leaving a bare area upon which a regrowth of hair quickly occurs.

Effect on nostrils and lips after acute stage has passed.

If the scabs are forcibly removed, a raw bleeding area is exposed and healing is considerably delayed.

Recovery results in the development of an enduring immunity and thereafter the animal is resistant to further infection.

*Symptoms.*

Frequently, the scabs are confined to the margins of the lips, and the corners or commisures of the mouth occurring close to the junction of the skin and mucous membrane, but in many cases, the nostrils and muzzle also become involved. Normally, complete healing takes place and the scabs loosen and become detached, within three to four weeks of the appearance of symptoms.

When secondary infection accompanied by suppuration and ulceration of the tissues occurs, healing may be considerably delayed and the condition may be

further complicated as the result of attack by blowflies. Sheep affected by extensive lesions involving the lips and muzzle, may find difficulty in feeding, suffering considerable loss of condition, while young lambs may die of starvation.

In some cases the infection extends to the gums, tongue and palate when swelling and reddening of the mucous membrane occurs. In the case of ewes suckling affected lambs the infection may be transmitted to the skin of the udder resulting in extensive scab formation. Affected ewes may refuse to suckle their lambs and should the udder become overstocked with milk, bacterial infection may supervene resulting in the development of mastitis.

Lesions on the coronets may produce symptoms of lameness. In addition, scabby lesions may occasionally make their appearance on other areas where there is little wool or hair including the face, eyelids, ears, brisket, inside of the thighs and on the scrotum in rams.

"Scabby Mouth"
Note scabs covering muzzle.

*Treatment.*

Uncomplicated cases of scabby mouth require no treatment. The disease runs a course of three to four weeks following upon which spontaneous recovery occurs. Since the forcible removal of the scabs retards healing, any treatment involving this practice should be discouraged. In the more severe cases where there is ulceration of the tissues, the affected parts should be swabbed with a five per cent. solution of bluestone (1 ounce to the pint) followed by the application of an antiseptic ointment. A mixture composed of creosote 5 parts, sulphur 10 parts and vaseline 100 parts, is usually recommended, but it is probable that the application of carbolised vaseline or zinc ointment would serve the purpose equally well.

*Prevention.*

Vaccination provides the only effective means of control. On properties where previous outbreaks have occurred, vaccination should be confined to the lambs and should be carried out as a routine procedure at the time of marking. When an

outbreak occurs amongst sheep that have not previously been exposed to infection, it may be brought under control within a few weeks by vaccination of the whole flock.

Contagious pustular dermatitis vaccine is available at the Commonwealth Serum Laboratories and may be procured through the Commonwealth Department of Health. As supplied the vaccine consists of (1) a sealed ampoule containing a powder composed of dried finely ground scabs, (2) a stoppered bottle containing diluting fluid. When the two are mixed sufficient vaccine is produced for the treatment of 500 sheep.

A darning needle cut off through the eye so as to leave two sharp prongs will provide a suitable instrument for vaccination purposes. A supply of these should be prepared to enable a fresh needle to be used after vaccinating each 100 sheep and they should be sterilised by boiling before use.

If the point of the needle is inserted into a cylindrical piece of wood about 2 inches in length, this will serve as a holder. Preparatory to vaccination, lambs should be held over a rail in the position used for marking so as to expose the inner surface of the thigh. The needle is dipped in the vaccine and a slight abrasion or scratch 1½ to 2 inches long is made by drawing it across the bare untreated skin of the thigh.

The needle is again dipped in the vaccine and a second line is drawn parallel to the first and about half an inch distant from it. By this means, the small amount of vaccine carried between the prongs of the needle is introduced into the superficial layers of the skin.

These scarifications should be just sufficient to break the surface layers of the skin, but should not be so deep as to cause bleeding. No antiseptic of any kind should be used since this would destroy the virus and prevent the vaccine from taking effect. Needles should be cleansed after the treatment of each animal by wiping with dry cotton wool in order to remove any dirt or grease gathered from the skin.

A representative number of the animals should be examined after an interval of about a week. Successful vaccination will be denoted by the presence of an even row of pustules along the lines of scarification and this will be followed by the development of the typical scabs. A reaction of this type is referred to a "take" and it is accompanied by the development of a solid immunity which becomes effective after an interval of 14 days and endures for a period of two to three years and possibly throughout the life of the animal. Unless a definite "take" is obtained in susceptible sheep, no immunity may be expected. It should, however, be recognised that "takes" will not develop in recovered sheep which have already become immune as the result of previous exposure to infection.

Since contagious pustular dermatitis is transmissible to man, care should be taken when handling the vaccine, to prevent it entering cuts or abrasions in the hands and to avoid pricking the fingers with the needle.

Upon the completion of vaccination, cotton wool swabs used for the cleaning of the needles should be destroyed by burning and the hands should be washed in an antiseptic solution.

Empty vaccine bottles, ampoules, stoppers and needles should be sterilised by immersion in a five per cent solution of lysol (one ounce to the pint of water) for 30 minutes.

# GRAIN SORGHUM TRIALS

## DENMARK RESEARCH STATION.

H. G. ELLIOTT, Agrostologist; V. E. WESTON, Manager.

GRAIN sorghum trials were instituted at the Denmark Research Station in 1946 and since that time many varieties of grain sorghums have been tested to determine their value or otherwise for the production of grain.

*1948-1949 Trials.*

During this season a reduced number of varieties was tested as only those varieties that had shown promise in the previous trials were included, together with two recent introductions. Unfortunately, we were unable to incorporate Wheatland CR45 and Westland Milo owing to shortage of seed but commercial Wheatland Milo was substituted.

*Soil.*

Greyish loam semi-moist summer land adjacent to the Denmark River.

*Planting.*

Following normal cultivation the seed was planted in rows 3ft. apart on November 12, 1948. Fertiliser used was superphosphate at the rate of 4 cwts. per acre.

*Germination.*

This was variable owing to the soil moisture depth variation.

*Yields.*

Yields for both green fodder and grain were taken but unfortunately there are no facilities at the Research Station for completely cleaning the seed, consequently, grain yields as given include a small proportion of chaff and trash. This, however does not interfere with the relative performances of the various varieties.

*General Growth.*

The varieties were rather slow in coming away in the first month. Later, however, fair to good growth was made under the warmer conditions then prevailing. Two varieties—Atlas, and Pietersburgh White—were noted as outstanding in their general impression on the observers. Two other varieties, Martin and Wheatland Milo—were noted to be of good stooling habit.

*Pests and Diseases.*

Apparently, there was little damage by pests or diseases; Atlas was noted as being free from any such troubles.

*Maturity Periods.*

Generally all varieties took rather long to ripen even more so than the maize varieties in an adjoining trial, indicating that earlier varieties than those so far tried are still required.

It appears that most of the grain sorghums are rather erratic in the time of maturing, even from season to season in any one district where tried. This erratic relative maturing is not confined to this State, as it has been a common experience in Queensland and other countries. Results at Denmark in 1947-48 gave four maturity groups whereas in 1948-49 only two distinct classifications regarding maturity could be made.

The first and earlier group displayed a range of maturity times. As in previous seasons, the earliest variety was Hegarie, this being the first type to flower and ripen. Martin and Early Kalo were slightly later in ripening and as regards flowering Martin was considerably later than the other two.

This season, Wheatland Milo ripened after Martin but flowered before it, whereas last season Martin was later in both respects.

The other maturity classification this season included the late varieties, Pietersburgh White and Atlas. Both these kinds were approximately a month later in ripening than Hegarie or Martin. Atlas was so late that the heads were damaged by heavy rain before harvesting was possible and that same hazard would be liable to affect Pietersburgh White in other seasons. Thus the value of these two varieties for grain can be discounted.

Furthermore, variations in maturity periods were reflected in differences in height. Atlas and Pietersburgh White were higher than the other varieties at flowering, and under good conditions would undoubtedly become tall and lank making mechanical or stook harvesting very difficult. Martin was somewhat shorter than the above two late varieties, and taller than the other early types, being 4ft. high at flowering. This was the same height as that given by Martin in the previous year's trial, so there does not now appear to be any great danger that this variety will grow too tall for successful mechanical harvesting. The remaining early varieties were very dwarfed—at least at flowering—and entirely suitable for mechanical harvesting in this regard.

*Results.*

The following table gives the number of days to flowering, height to flowering, yields of green material in tons per acre and grain yields in bushels per acre. The table is arranged in order of flowering time—

| Variety. | Number of Days to Flowering. | to Maturity. | Height at Flowering inches. | Green Yield ton/ac. | Grain Yields bus/ac. | Maturity Group. |
|---|---|---|---|---|---|---|
| Hegarie .. .. | 77 | 133 | 18 | not taken | 60.5 | Early |
| Early Kalo .. .. | 78 | 137 | 18 | 7.6 | 60.5 | Early |
| Wheatland Milo .. | 86 | 142 | 18 | 7.1 | 20.2 | Early |
| Martin .. .. | 90 | 136 | 48 | 8.3 | 48.6 | Early |
| Pietersburgh White | 98 | 156 | 54 | 18.5 | 90.7 | Late |
| Atlas* .. .. | 98 | 164 | 60 | 25.9 | not taken | Late |
| Western Blackhull Kaffir** .. .. | 103 | 162 | 24 | not taken | not taken | Late |

*Heads well filled but damaged by rain. **Very poorly filled, not worth estimating.

*Yield.*

*Green Fodder.*

The best green fodder yields were as follows:—

| | |
|---|---|
| Late Group—Atlas .. .. .. | 25.9 tons Green Material/acre. |
| Late Group—Pietersburgh White .. | 18.5 tons Green Material/acre. |
| Earlier Group—Martin .. .. .. | 8.3 tons Green Material/acre. |

Incidentally, the variety Hegarie, the green yields of which were not taken, is known to be more palatable for green fodder than most other grain sorghums.

*Grain.*

The late types gave the best grain yield—Pietersburgh White yielding 90.7 bushels per acre—but these late varieties are not suitable because of their late maturing and tall growing habits. In the earlier group, yields were still very good being as follows:—

| | |
|---|---|
| Hegarie .. .. .. | 60.5 bushels per acre. |
| Early Kalo .. .. | 60.5 bushels per acre. |
| Martin .. .. .. | 48.6 bushels per acre. |
| Wheatland Milo .. .. | 20.2 bushels per acre. |

Because of its earliness and other desirable characteristics already mentioned, together with its good performance in previous tests, Hegarie is to be preferred above the others, especially as Hegarie germinated relatively poorly as compared with Early Kalo.

Martin yielded similarly to last year, is a modern type, of very good stooling habit and furthermore, was apparently of better vigour (reflected in green fodder yields) than Early Kalo. For these reasons and others, it is suggested that under equal conditions, Martin is better than Early Kalo which has been inconsistent in yields and height in previous trials.

*Summary for 1948-49 Trials.*

Summing up, it is possible to rank varieties for grain as follows: —

| | |
|---|---|
| Early to Mid Season | 1. Hegarie—alternatively Early Kalo. |
| Early to Mid Season | 2. Martin |
| Late | 3. Pietersburgh White. |

Wheatland Milo was disappointing this year, but this is not the Wheatland Milo CR45 strain referred to in previous tests. For green fodder purposes the following were most promising—

| | |
|---|---|
| Late | 1. Atlas. |
| Late | 2. Pietersburgh White. |

As a dual purpose variety Martin is suggested.

A variety which could be eliminated from further tests is Western Blackhull Kaffir.

**GENERAL SUMMARY GRAIN SORGHUM TRIALS FOR THE YEARS 1946-49.**

*Grain.*

Taking all factors in the 1948-49 trial along with the results of the 1947-48. and the 1946-47 tests into consideration, it would appear that to date the following varieties are the most promising for grain production.

(a) Hegarie has been a relatively early variety in all three tests at Denmark. It fills its heads well; has a moderate but consistent yield, is of quite good growth, and of semi-dwarf habit. Moreover, Hegarie is far more palatable for green fodder than most other grain varieties. Resistance to staining is moderate. In general, Hegarie would appear to be preferable wherever soil moisture supplies are doubtful.

(b) Where higher yields are required, Martin may be desirable. The relative maturity of Martin would appear to vary under our conditions but it could be considered (on the experience of other countries) to be usually earlier than Wheatland and never very much later. A modern American bred variety Martin is semi-dwarf in habit, stools well, is high yielding and is also capable of giving a fair green fodder yield. Where soil moisture is fairly assured or under irrigation, Martin is the logical choice.

(c) Taken on the whole, Wheatland Milo, particularly the CR45 strain has given a moderately good performance in all tests. Mid season in maturity, a fair grain yielder, of desirable dwarf habit, well stooled and of fair resistance to staining, Wheatland Milo is the only variety commercially available for the present so that it must remain as the recommended variety for general use.

(d) Pietersburgh White is late and most probably tall and lank in growth. It has only been tested for one year at Denmark. So despite its high yield and good impression, it cannot be recommended except perhaps for irrigated areas with a long growing season and where mechanical harvesting is not practicable for other reasons.

Thus recommendations can be made as follows:—

| Variety | Maturity Group | Purpose |
|---|---|---|
| Wheatland | Mid Season | For general planting at the present as seed is readily available commercially. |
| Hegarie | Very early to early | When seed is available this variety is suggested where soil moisture is limited. |
| Martin | Early to mid season | When seed is available for general use on areas where the soil moisture is reasonably adequate. |

*Green Fodder.*

Reviewing the last three seasons trials, the following appear to have some possibilities for green fodder purposes as an alternative to grain.

Early—Hegarie—More palatable than Early Kalo.
Early—Early Kalo—For slightly better bulk than Hegarie.
Mid Season—Pink Kaffir.
Late—(1) Atlas.
(2) Pietersburgh White.
(3) Sharron.

*Dual Purpose Varieties.*

Results of previous tests suggest that the following varieties can be used for green fodder if they fail for grain.

Early —Hegarie
Mid Season—Martin

In conclusion, the number of varieties worth further testing have now been reduced to the point where randomised yield experiments in which full data can be collected are feasible.

# DAIRY HERD IMPROVEMENT SCHEME

## GRADE HERD RECORDING.

M. CULLITY, Superintendent of Dairying.

THE operations of the Improvement Scheme for 1948-9 show that there is still a keen unsatisfied demand for an extension of Herd Recording. Unfortunately shortage of suitable staff prevented the development which had been planned. Nevertheless the number of cows tested during the year was a record. After excluding those which had not completed 90 days under test 12,692 cows were recorded to have given an average yield of 4810 lb. of milk with 4.47 per cent fat and 214.7 lb. butterfat.

This is 33.1 lb. greater than in the year of resumption of this work (1946-7) when 11,944 cows gave 4200 lb. of milk with 4.36 per cent. fat and 181.6 lb. butterfat.

This represents £4 5s. 6d. increase per cow, at an annual cost of only 3s. 6d. for recording fees. The additional value from the 12,692 cows is £54,258.

Some idea of the extent to which Herd Recording has been accepted as a means of improving yields and general efficiency can be gained from Table 1.

TABLE 1.

GRADE HERD RECORDING.

| Year. | Cows in Dairying Areas. | Cows under Test. | | Number of Herds Tested. | Number of Units. | Average number of Herds per Unit. | Average number of Cows per Herd. |
|---|---|---|---|---|---|---|---|
| | | Number. | Per cent. | | | | |
| 1933–34 .... | 74,900 | 4,308 | 5.7 | 159 | 8 | 20 | 26 |
| 1934–35 .... | 77,328 | 4,088 | 5.2 | 142 | 8 | 18 | 29 |
| 1935–36 .... | 76,745 | 4,590 | 5.9 | 178 | 9 | 20 | 26 |
| 1936–37 .... | 78,547 | 9,115 | 11.6 | 356 | 18 | 20 | 26 |
| 1937–38 .... | 82,893 | 10,033 | 12.1 | 393 | 19 | 21 | 26 |
| 1938–39 .... | 85,300 | 12,368 | 14.4 | 485 | 23 | 21 | 26 |
| 1939–40 .... | 90,169 | 11,479 | 12.7 | 465 | 23 | 20 | 26 |
| 1940–41 .... | 94,891 | 9,609 | 10.1 | 409 | 20 | 20 | 23 |
| 1941–42 .... | 98,850 | 7,081 | 7.1 | 301 | 16 | 19 | 24 |
| 1946–47 .... | 102,256 | 11,944 | 11.6 | 432 | 21 | 21 | 28 |
| 1947–48 .... | 104,193 | 12,395 | 11.8 | 460 | 24 | 19 | 27 |
| 1948–49 .... | 107,223 | 12,692 | 11.8 | 477 | 25 | 19 | 27 |

The season could be considered normal although May of 1949 was unusually dry. The following comparison of rainfall for the year with a 42 years' average for six key stations shows that the seasonal variation was small.

TABLE 2.

COMPARISON OF RAINFALL.

| Month. | Points. | |
|---|---|---|
| | 1948–49. | Average to 1942. |
| 1948— | | |
| July | 941 | 662 |
| August | 670 | 586 |
| September | 480 | 426 |
| October | 211 | 305 |
| November | 214 | 124 |
| December | 128 | 74 |
| 1949— | | |
| January | 40 | 63 |
| February | 5 | 72 |
| March | 132 | 121 |
| April | 462 | 205 |
| May | 108 | 551 |
| June | 468 | 730 |
| | 3,859 | 3,919 |

The total production of milk for all purposes was only little behind that of the previous year which constituted a record for this State.

Details of production since the commencement of testing in 1933 are shown in Table 3.

In the first year, 1933-4 and again in the year the work was resumed after the war, the average yield was 180 lb. approximately. In other years most new units have given somewhat similar production. It is possible that first year results are depressed somewhat owing to some yields of cows nearing the end of their lactations at the commencement of the testing year. However, the improvement in yields in following years is substantial. The improved results following

TABLE 3.

AVERAGE PRODUCTION PER COW 1934-48.

| Year. | No. of Cows. | Milk (gals.). | Test (per cent). | Butterfat (lb.) |
|---|---|---|---|---|
| 1933–34 | 4,308 | 415 | 4.35 | 180.60 |
| 1937–38 | 10,033 | 486 | 4.59 | 223.10 |
| 1938–39 | 12,368 | 487 | 4.48 | 218.70 |
| 1939–40 | 11,479 | 462 | 4.51 | 208.30 |
| 1940–41 | 9,609 | 447 | 4.45 | 199.00 |
| 1941–42 | 7,081 | 496 | 4.52 | 224.02 |
| | *5,695 | 502 | 4.61 | 231.78 |
| 1946–47 | 11,944 | 420 | 4.36 | 181.00 |
| 1947–48 | 12,395 | 478 | 4.46 | 213.30 |
| 1948–49 | 12,692 | 481 | 4.47 | 214.71 |

* Excludes four Units tested for from six to seven months only.

consistent recording and study of the results by the herd owners may be seen from the following segregation of averages according to the number of years the herds have been under test.

Thus herds which were tested for two years produced 19 lb. fat more than those tested one year only while those which were in the Scheme for three years produced 28 lb. and 9 lb. more respectively than those recorded for one and two years.

TABLE 4.

VALUE OF CONTINUITY OF TESTING.

| | Herds. | lb. fat. | |
|---|---|---|---|
| *Herds tested one year only—* | | | |
| 1946–47 | 432 | 181 | |
| 1947–48 | 210 | 199 | |
| 1948–49 | 164 | 199 | |
| Average of | 806 | 189 | lb. fat. |
| *Herds tested two successive years—* | | | |
| 1946–48 | 253 | 207 | |
| 1947–49 | 131 | 216 | |
| Average of | 384 | 208 | lb. fat. |
| *Herds tested three successive years—* | | | |
| 1946–49 | 176 | 217 | |

The value of this extra production is appreciable as is set out in Table 5 for each cow, and for herds of 20 and 30 cows. The price of butterfat for the period has been taken at 2s. 7d. per pound.

TABLE 5.

| | Margin per cow over one year's testing. | Value at 2s. 7d. per pound. | | |
|---|---|---|---|---|
| | | Per cow. | Per 20 cows. | Per 30 cows. |
| | lb. | £ s. d. | £ s. d. | £ s. d. |
| Herds tested 3 years | 28 | 3 12 4 | 72 6 8 | 108 10 0 |
| Herds tested 2 years | 9 | 1 3 3 | 23 5 0 | 34 17 6 |

The annual cost of fees for the above result is 3s. 6d. per cow, £3 10s. per 20 cows, £4 15s. per 30 cows.

A further indication of the value of continuity of testing from year to year is seen in the performances of the herd of Mr. O. Foan of Donnybrook. The average yield of this herd year by year is as under:—

| Year. | No. of Cows. | Average Butterfat. lb. |
|---|---|---|
| 1933–34 | 14 | 211 |
| 1934–35 | 20 | 272 |
| 1935–36 | 18 | 325 |
| 1936–37 | 21 | 319 |
| 1937–38 | 19 | 359 |
| 1938–39 | 19 | 337 |
| 1939–40 | 18 | 300 |
| 1940–41 | 14 | 291 |
| 1941–42 | 14 | 328 |
| 1946–47 | 24 | 344 |
| 1947–48 | 20 | 380 |
| 1948–49 | 21 | 407 |

The soil on Mr. Foan's property is recognised in the district as being of poor quality, but by judicious management of the pastures, careful breeding and selection of his herd, and good husbandry, he has achieved consistently high average yields.

Results from the individual units are given in Table 6.

Table 6.

PRODUCTION PER COW IN EACH UNIT.

Listed in order of Merit.

| Unit. | No. of Herds. | No. of Cows. | *Percentage of Heifers. | Milk Average (lb.) | Test (per cent). | Butterfat Average (lb.). | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | 1948–49. | 1947–48. | 1946–47. |
| Cowaramup Nth. | 19 | 391 | 50 | 5,375 | 4.7 | 257.8 | 244.2 | 228.0 |
| Rosa Brook .... | 20 | 467 | 35 | 5,368 | 4.7 | 255.7 | 228.7 | 201.9 |
| Denmark .... | 19 | 402 | 16 | 5,253 | 4.7 | 251.6 | 216.3 | 191.6 |
| Cowaramup Sth. | 19 | 350 | 43 | 5,432 | 4.4 | 241.1 | 252.7 | 194.9 |
| Waroona .... | 17 | 541 | 41 | 5,226 | 4.4 | 230.7 | 238.6 | 198.0 |
| Margaret River | 17 | 392 | 37 | 5,260 | 4.3 | 228.7 | 196.0 | 187.4 |
| Brunswick .... | 13 | 443 | 37 | 4,833 | 4.6 | 225.2 | 210.6 | 181.0 |
| Donnybrook .... | 17 | 392 | 32 | 4,627 | 4.8 | 225.2 | 219.0 | 193.0 |
| Forest Grove .... | 21 | 519 | 38 | 5,034 | 4.4 | 224.8 | 195.5 | 163.3 |
| Harvey .... | 16 | 616 | 23 | 5,138 | 4.3 | 222.9 | 255.0 | 192.0 |
| Northcliffe .... | 22 | 562 | 15 | 4,637 | 4.7 | 219.6 | 177.0 | .... |
| Nannup .... | 21 | 601 | 26 | 4,982 | 4.4 | 218.3 | 197.7 | 170.0 |
| Balingup .... | 20 | 618 | 50 | 4,881 | 4.4 | 216.5 | 213.3 | 181.5 |
| Albany .... .... | 20 | 464 | 46 | 4,657 | 4.6 | 215.2 | 220.7 | 166.0 |
| Pinjarra .... | 18 | 621 | 29 | 4,954 | 4.2 | 212.1 | 227.2 | 184.0 |
| Scotsdale .... | 22 | 458 | 60 | 4,526 | 4.6 | 210.8 | 201.4 | .... |
| Ruabon .... | 19 | 724 | 35 | 5,053 | 4.1 | 208.9 | 207.1 | 201.6 |
| Pemberton .... | 20 | 438 | 20 | 4,757 | 4.3 | 207.4 | 210.6 | 148.3 |
| Armadale .... | 17 | 609 | 12 | 4,850 | 4.2 | 206.2 | .... | .... |
| Mt. Barker .... | 21 | 611 | 20 | 4,536 | 4.5 | 197.6 | 223.8 | 158.5 |
| Vasse-Jindong .... | 18 | 572 | 23 | 4,369 | 4.3 | 189.9 | 189.1 | .... |
| Metricup .... | 16 | 392 | 20 | 4,195 | 4.4 | 186.7 | 190.6 | 216.7 |
| Manjimup .... | 23 | 581 | 15 | 4,231 | 4.3 | 184.0 | 193.3 | 167.8 |
| Bridgetown .... | 21 | 516 | 38 | 4,135 | 4.4 | 182.8 | 213.0 | 167.5 |
| Wilga .... .... | 21 | 412 | 44 | 4,001 | 4.3 | 172.8 | 205.1 | 162.0 |

* Including two and three year olds.

The leading unit was that at North Cowaramup where 391 cows had an average yield of 5375 lb. milk at a test of 4.79 per cent. for 257.8 lb. butterfat. This is an improvement of 13.6 lb. of fat from the previous year. In second place is Rosa Brook where 467 cows produced 5,368 lb. of milk 4.75 per cent. test and 255.8 lb. butterfat, which was 27 lb. over 1947-48.

The third unit, Denmark, showed a still greater improvement from the previous year. The increase was 35.3 lb. from 216.3 to 281.6 lb. butterfat. There were 402 cows in the unit for a milk yield of 5,253 lb.

Fourteen of the 25 units were above the average for the year, while five only were below the average (196 lb.) of the farms surveyed by the Joint Dairy Industry Costs Advisory Committee with a view to determining a basis for a recommendation regarding price.

Grouping of herds according to production is shown in Table 7.

The percentage of herds under 200 lb. was 36.8 per cent. compared to 38.6 per cent. and 66.7 per cent. for 1947-8 and 1946-7. In 1933-4 74.5 per cent. of the herds were under this figure. Some improvement is being achieved but more than one third of the herds are below this figure. There still remains considerable room for further concentration on the part of the herd owner to lift the yields of his cows.

TABLE 7.

HERDS GROUPED ACCORDING TO PRODUCTION.

Butterfat per Head (lb.).

| Year. | Over 400. | 350–400. | 300–350. | 250–300. | 200–250. | 150–200. | 100–150. | Under 100. |
|---|---|---|---|---|---|---|---|---|
| | % | % | % | % | % | % | % | % |
| 1933–34 .... | .... | .... | 1.3 | 3.9 | 20.3 | 53.6 | 18.3 | 2.6 |
| 1939–40 .... | .... | .... | 3.2 | 18.5 | 34.6 | 32.9 | 9.7 | 1.1 |
| 1940–41 .... | .... | .... | 1.5 | 13.9 | 31.8 | 39.4 | 12.7 | .8 |
| 1941–42 .... | .... | 1.6 | 8.2 | 21.9 | 42.1 | 21.5 | 4.7 | .... |
| 1946–47 .... | .... | .... | 1.2 | 7.9 | 25.2 | 39.9 | 22.4 | 3.4 |
| 1947–48 .... | .... | .6 | 3.9 | 18.1 | 38.8 | 27.6 | 10.2 | .8 |
| 1948–49 .... | .6 | .8 | 5.2 | 17.6 | 38.7 | 28.7 | 7.3 | .8 |

While there is a noticeable trend towards fewer herds under 200 lb., there is also a movement to more over 300 lb. In 1933-4 only 1.3 per cent. reached this figure. In 1946-7, the first year of resumption after the war, only 1.2 per cent. were in this group. In the following two years, the percentage increased to 4.5 per cent. and 6.6 per cent.

The trend at each end of the scale may be seen from Graph 1.

A similar grouping of both mature cows and heifers (see Table 8 and Graphs 2 and 3) shows a similar trend.

TABLE 8.

COWS GROUPED ACCORDING TO AGE AND PRODUCTION.

(Cows tested less than 90 days excluded.)

Groups according to Butterfat Production (lb.).

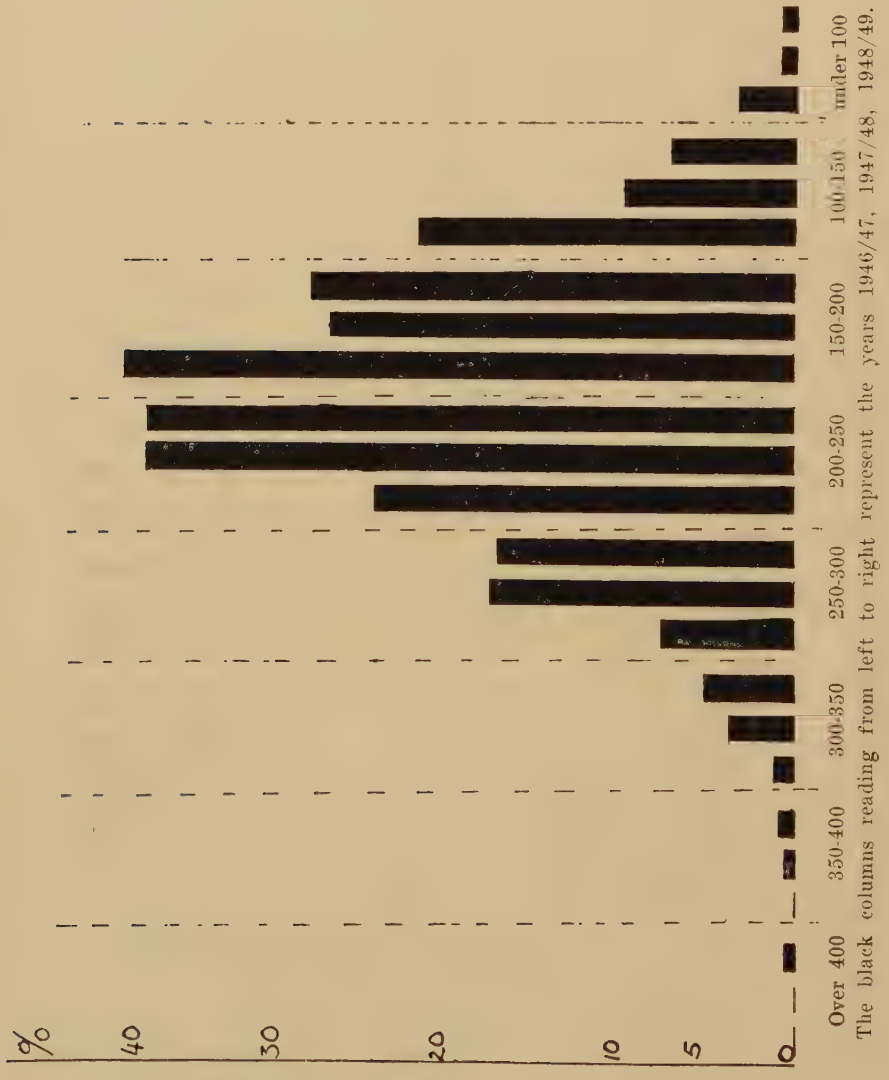
| Year. | Age. | Over 600. | 500–600. | 400–500. | 300–400. | 200–300. | 150–200. | 100–150. | Under 100. | Total Cows. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | % | % | % | % | % | % | % | % | |
| 1942 .... | Mat. | 0.02 | 0.3 | 2.4 | 21.8 | 46.4 | 17.4 | 8.7 | 3.0 | 4,287 |
| 1947 .... | ,, | .... | 0.07 | 0.68 | 7.97 | 35.16 | 26.37 | 20.13 | 9.62 | 8,711 |
| 1948 .... | ,, | 0.01 | 0.1 | 1.85 | 14.84 | 42.11 | 21.21 | 13.67 | 6.21 | 8,999 |
| 1949 .... | ,, | .03 | 0.19 | 2.32 | 15.42 | 40.64 | 21.89 | 13.14 | 6.34 | 8,713 |
| 1942 .... | Heifers | .... | 0.05 | 0.2 | 5.8 | 36.8 | 27.5 | 20.2 | 9.4 | 1,978 |
| 1947 .... | ,, | .... | .... | 0.1 | 3.2 | 25.5 | 29.4 | 25.8 | 16.0 | 3,232 |
| 1948 .... | ,, | .... | 0.05 | 0.21 | 7.14 | 36.42 | 26.58 | 19.16 | 10.44 | 3,396 |
| 1949 .... | ,, | .... | 0.02 | 0.43 | 6.98 | 38.80 | 26.26 | 18.58 | 8.99 | 3,979 |

One of the disappointing features of Herd Recording is the relatively large number of low yielding cows kept in the herds from year to year. Nearly 20 per cent. of the mature cows and 26 per cent. of the heifers produced less than 150 lb. The rate of culling allows plenty of margin for increase, and it can be suggested

that 200 lb. is a far better minimum for the poorest herd. Farmers must exercise care, however, that low yields are not the result of poor feeding and management and that, on buying new stock to replace culls, only animals of superior quality are purchased.

GRAPH 1.

Herds grouped according to production, butterfat per head (lb.).




*Month of Calving and Length of Lactation.*

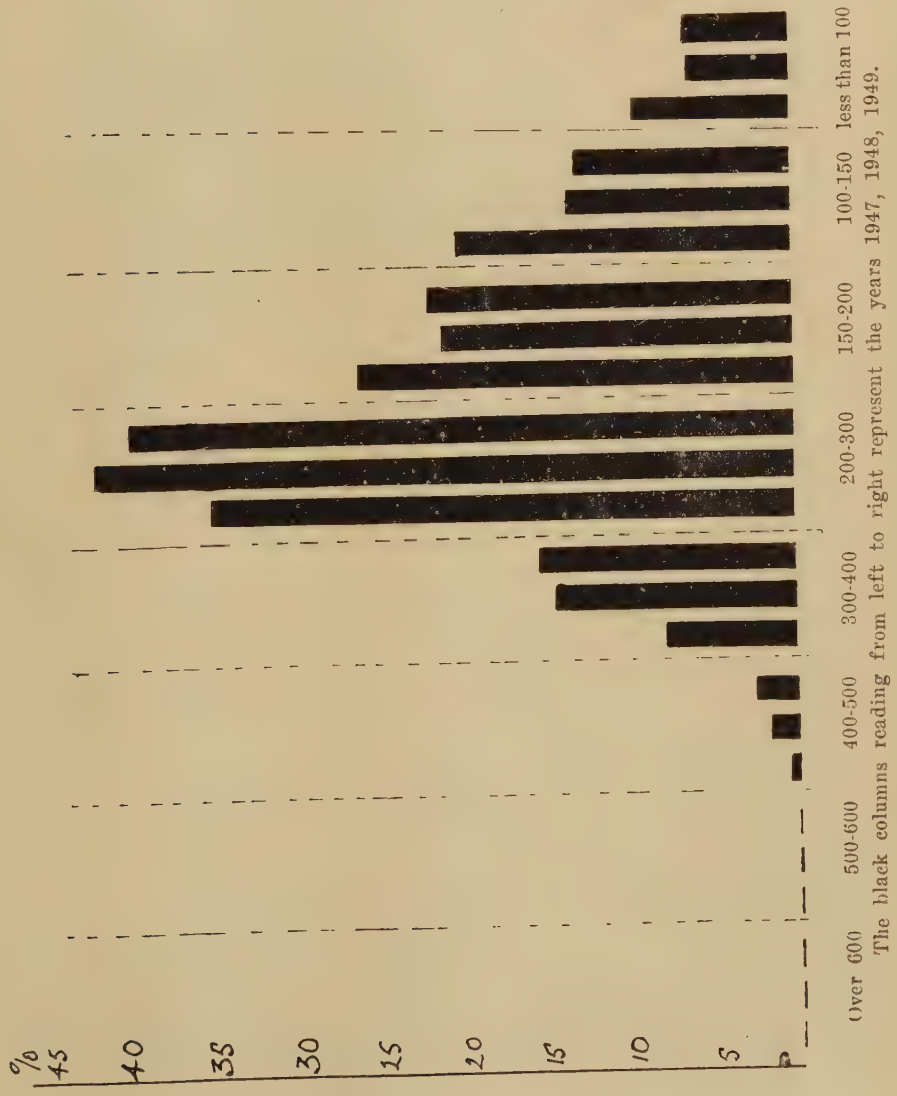
The influence of the month of calving on production is discussed in a separate report. The year's data confirmed that obtained in previous seasons, that those cows calving in March, April, May, June and July produce more than those calving at other times.

Only 26 per cent. of the cows completed 273 days, and these had an average yield of 280.26 lb. fat compared to 214.7 lb. for the whole scheme.

As it appeared obvious that even a large proportion of early calvers were not completing a full period, details of the length of lactation were prepared. The average length for all cows proved to be 6.9 months. Details of this work are given in a separate report.

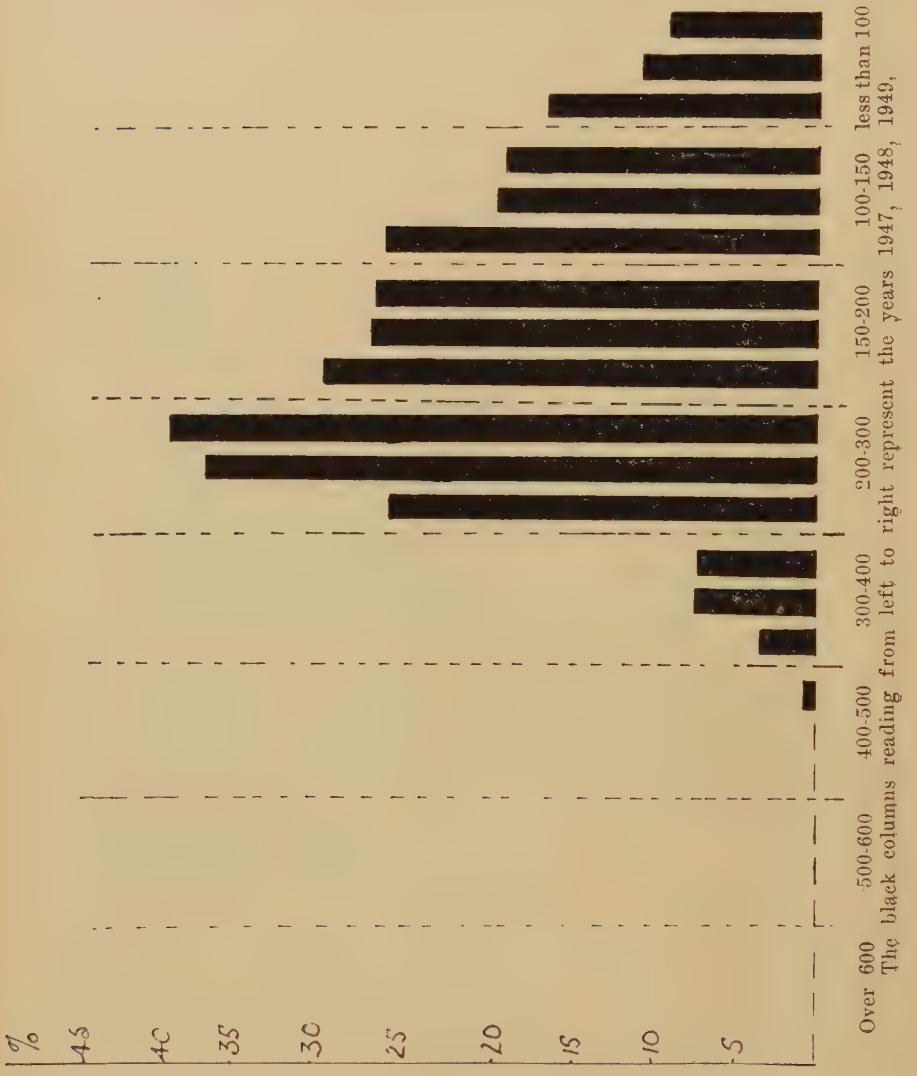
GRAPH 2.

Mature Cows grouped according to production of butter fat (lb.).
(Cows tested less than 90 days excluded.)



GRAPH 3.

Heifers Grouped According to Production of Butterfat (lbs.).
(Heifers tested less than 90 days excluded.)




*Herd Wastage.*

Details of herd wastage were collected again from all units and are given in Table 9. The total recorded disposals for the year represented 16.9 per cent. of all cows in the units. This figure is considered to be reasonably accurate and arrangements have been made for a complete checking of the data in this section each year. The information collected is intended to indicate the relative degree of losses and the causes in the various units. This will, in some cases at least, assist in directing attention to areas where special problems are occurring.

TABLE 9.

HERD WASTAGE.

| Unit. | Unit Letter. | No. of Cows in Unit. | | | Total Disposals Wastage, etc. | Sold for Dairying Purposes. | A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Disease. | | | | Other Causes. | | | |
| | | A Class. | B Class. | Total Cows. | | | Low Production. | Udder Troubles Mammitis, etc. | Abortion and Sterility. | T.B. | Other Diseases. | Accident or Injury. | Old Age. | Other Causes. | Sundry Deaths. |
| Pinjarra | A | 650 | 67 | 717 | 264 | 82 | 89 | 27 | 33 | .... | 4 | 7 | 6 | 10 | 6 |
| Waroona | B | 581 | 28 | 609 | 64 | 1 | 26 | 15 | 3 | 6 | 4 | .... | 1 | 8 | .... |
| Harvey | C | 648 | 55 | 703 | 134 | 4 | 106 | 10 | 1 | .... | .... | .... | 2 | .... | 11 |
| Brunswick | D | 486 | 20 | 506 | 81 | 6 | 62 | 1 | 4 | 5 | .... | 1 | 1 | .... | 1 |
| Ruabon | E | 724 | 6 | 730 | 155 | 41 | 56 | 37 | 13 | .... | 1 | .... | 3 | 2 | 2 |
| Metricup | F | 433 | .... | 433 | 33 | 1 | 25 | 6 | .... | .... | .... | .... | .... | .... | 1 |
| North Cowaramup | G | 391 | 6 | 397 | 87 | .... | 44 | 18 | 11 | 1 | 2 | 1 | 2 | 7 | 1 |
| Margaret River | I | 396 | 7 | 403 | 67 | 5 | 51 | 6 | 1 | .... | .... | 1 | 1 | .... | 2 |
| Rosa Brook | J | 477 | .... | 477 | 88 | 23 | 41 | 4 | 1 | .... | 1 | 4 | 3 | 8 | 3 |
| Forest Grove | K | 521 | .... | 521 | 48 | 1 | 22 | 4 | .... | .... | .... | 3 | 1 | 12 | 5 |
| Donnybrook | L | 419 | 15 | 434 | 31 | 13 | 10 | 1 | .... | .... | .... | 3 | .... | .... | 4 |
| Balingup | M | 621 | .... | 621 | 124 | .... | 101 | .... | 6 | .... | .... | 2 | 10 | 3 | 2 |
| Bridgetown | N | 528 | 62 | 590 | 62 | .... | 45 | 10 | .... | .... | .... | .... | 3 | 2 | 2 |
| Manjimup | O | 595 | 46 | 641 | 68 | 3 | 26 | 9 | 17 | .... | .... | 3 | 2 | 8 | .... |
| Pemberton | P | 438 | .... | 438 | 46 | 5 | 17 | 11 | .... | .... | .... | 3 | 8 | 2 | .... |
| Wilga | R | 445 | 21 | 466 | 151 | 75 | 40 | 8 | 20 | .... | .... | .... | 8 | .... | .... |
| Mt. Barker | S | 628 | 3 | 631 | 215 | 3 | 169 | 12 | .... | 9 | .... | 2 | 1 | 14 | 5 |
| Albany | T | 478 | 25 | 503 | 111 | 9 | 47 | 37 | 2 | .... | .... | 1 | 4 | 3 | 8 |
| Nannup | U | 610 | 9 | 619 | 22 | .... | 7 | 2 | .... | .... | .... | .... | .... | 10 | 3 |
| Vasse-Jindong | V | 623 | 83 | 706 | 71 | .... | 48 | 5 | 8 | .... | .... | 1 | .... | 9 | .... |
| Denmark | W | 408 | 10 | 418 | 39 | 7 | 2 | 16 | 2 | .... | .... | 1 | 7 | 1 | 3 |
| Northcliffe | X | 590 | 39 | 629 | 102 | 9 | 75 | 1 | 6 | .... | .... | 2 | 3 | 3 | 3 |
| Scotsdale | Y | 486 | 4 | 490 | 124 | 20 | 86 | 6 | 1 | 4 | 3 | 1 | .... | .... | 3 |
| Armadale | Z | 677 | .... | 677 | 75 | 11 | 31 | 11 | 1 | 17 | .... | .... | .... | 3 | 1 |
| Totals | | 12,853 | 506 | 13.359 | 2,262 | 319 | 1,226 | 257 | 130 | 42 | 15 | 36 | 66 | 105 | 66 |
| Percentages | | 96.2 | 3.8 | 100 | 16·9 | 2·4 | 9·2 | 1·9 | 1·0 | 0·3 | 0·1 | 0·3 | 0·5 | 0·8 | 0·5 |

Excluding South Cowaramup for which wastage is not available.

*Effect of Test on Average Yields.*

The tabulation of four years results of grouping butterfat percentage to indicate any trend in production is given in Table 10. Graph 4 has been prepared also to show the variation in yield according to test.

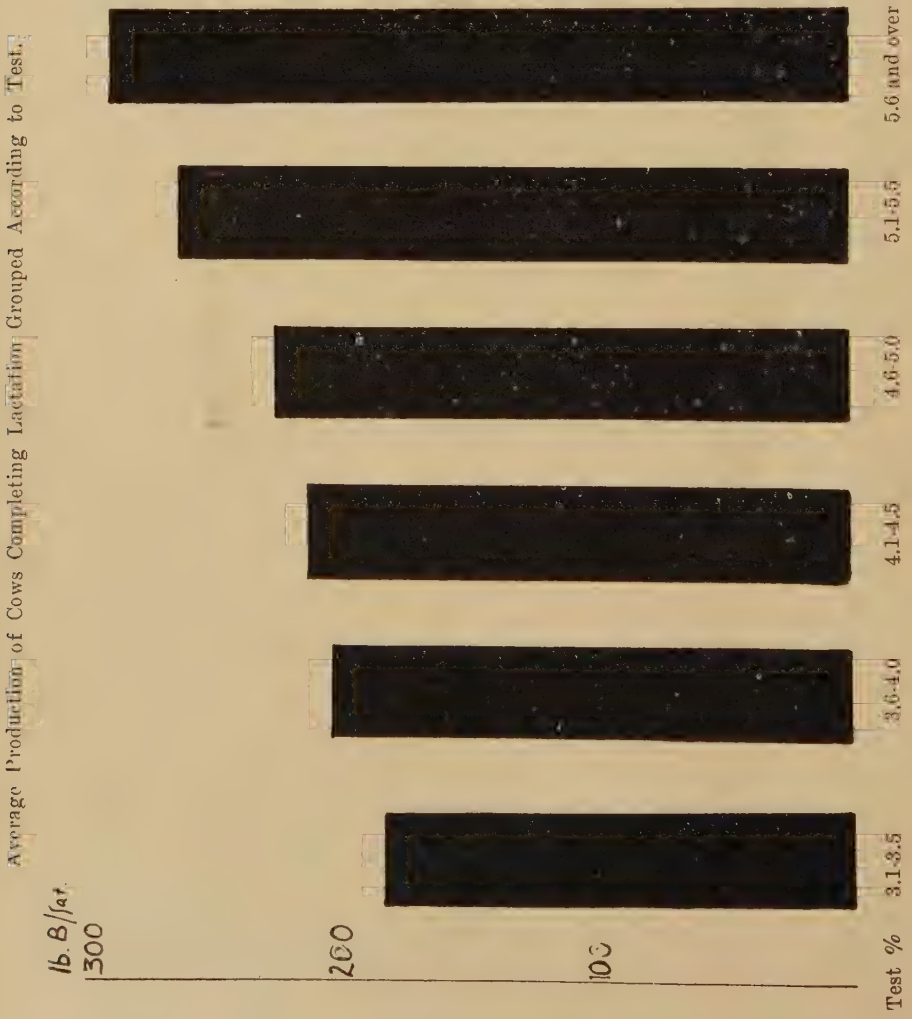
Table 10.

COWS GROUPED ACCORDING TO TEST.

(Including Cows completing lactation only.)

*Summary of four years shown.*

| Test. | No. of Herds. | No. of Cows. | Average Milk | Average Test. | Average Butterfat. |
|---|---|---|---|---|---|
| | | | lb. | % | lb. |
| 3.1–3.5 | 8 | 180 | 5,355.7 | 3.43 | 183.72 |
| 3.6–4.0 | 186 | 4,203 | 5,130.1 | 3.93 | 202.11 |
| 4.1–4.5 | 594 | 11,425 | 4,761.9 | 4.33 | 206.56 |
| 4.6–5.0 | 467 | 9,020 | 4,708.1 | 4.73 | 222.69 |
| 5.1–5.5 | 131 | 2,062 | 4,893.6 | 5.43 | 256.14 |
| 5.6 and over | 23 | 246 | 4,987.4 | 5.80 | 289.69 |



It will be seen that, as for the three years' results published in the last report, average yield rose regularly with the higher groupings of test.

The value of bulls from high testing strains which are capable of transmitting the capacity for high test to their progeny may be readily appreciated. The lifting of a herd average test from 4 per cent. to 5 per cent. without any variation in milk flow is a 25 per cent. increase in butterfat. The capacity for milk yields and butterfat percentage appear to be characters which are inherited separately and therefore for high milk yielding herds, bulls may be selected on the basis of high test, provided intelligent culling of low milk yielding progeny is carried out.

*Effect of Breed on Average Yields.*

An endeavour was made to segregate information regarding the performances of herds which were largely representative of one breed only.

In the case of the Jersey breed a larger number of herds, composed almost entirely of Jersey animals were available. With the Guernsey and Shorthorn breeds, a higher proportion of crossbred animals were included, but, even so, in these herds a single breed was very predominant.

Table 11 shows the average for each breed for all complete lactations and for a 273-day lactation period only. It will be noted that the Guernseys and Jerseys proved superior to the Shorthorn herds, their average yields being 264, 252 and 217 lb. of butterfat respectively. The average yields of milk of the Guernseys and Shorthorns were similar. The yield of milk by the Jersey cows was slightly lower. Probably the most interesting feature of this table is the proportion of the various breeds which achieved a full 273-day lactation. The Guernsey herds were best with 62.5 per cent. followed by the Jerseys with 51.2 per cent. The proportion of full lactations by Shorthorns was low, with 29.1 per cent. only.

TABLE 11.

RELATIVE YIELDS OF VARIOUS BREEDS.

| Breed. | No. of Herds. | Complete Lactations. | | | | | 273-Day Lactations. | | | | | Percentage Lactations reaching 273 days. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | No. of Cows. | Average. | | | | No. of Cows. | Average. | | | | |
| | | | No. of Cows per Herd. | Milk per Cow. | Fat per Cow. | Fat. | | No. of Cows per Herd. | Milk per Cow. | Fat per Cow. | Fat. | |
| | | | | lb. | lb. | % | | | lb. | lb. | % | |
| Jersey .... | 35 | 778 | 22.2 | 5,066.9 | 252.1 | 4.96 | 398 | 11.4 | 5,909.8 | 294.8 | 4.99 | 51.2 |
| Guernsey | 23 | 427 | 18.6 | 5,355.6 | 264.5 | 4.94 | 267 | 11.6 | 5,952.4 | 296.6 | 5.02 | 62.5 |
| A.I.S. .... | 25 | 774 | 31.0 | 5,351.3 | 217.7 | 4.07 | 225 | 9.0 | 6,654.0 | 276.5 | 4.15 | 29.1 |

It is impossible at this stage to understand the significance of these figures. They provide, however, a basis for further investigation in future years.

*Calf Marking.*

Marking of calves from A Class cows has been continued as a basis for sire surveys. The number of calves marked during the year showed a substantial increase.

*Proved Bulls.*

As in last year's report, details of the performances of the daughters of bulls in tested herds are given, Table 12.

## TABLE 12.

### Bulls with Six or More Daughters Completing Lactation.

| Bull. | Breed. | Daughters. | | | | | | | | | | Unit. | Owner. | Age of Bull. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 2 Years Old. | | 3 Years Old. | | 4 Years Old. | | Mature. | | Total. | | | | |
| | | No. | Butter-fat Average. | No. | Butter-fat Average. | No. | Butter-fat Average. | No. | Butter-fat Average. | No. | Butter-fat Average. | | | |
| | | | lb. | | lb. | | lb. | | lb. | | lb. | | | |
| Crantock Napoleon's Masterpiece | Jersey | .... | .... | .... | .... | 1 | 430.63 | 6 | 484.35 | 7 | 476.67 | Denmark | W. Middleton | 13 |
| Eastbrook Tribute | Guernsey | .... | .... | .... | .... | .... | .... | 12 | 401.62 | 12 | 401.62 | Pemberton | D. Della | Dead |
| Koojan Monogram | do. | .... | .... | .... | .... | .... | .... | 8 | 399.04 | 8 | 399.04 | do. | G. H. Barnsby | 12 |
| Denmark Ace's Image | do. | 4 | 352.23 | .... | .... | 1 | 565.28 | 1 | 393.31 | 6 | 394.59 | Scotsdale | W. J. Smith | 6 |
| Muresk Paladin | do. | .... | .... | 2 | 327.00 | 2 | 368.50 | 4 | 367.00 | 8 | 357.00 | Rosa Brook | H. & T. Harrison | 9 |
| Lansdowne Ace V. | do. | .... | .... | 2 | 385.08 | .... | .... | 4 | 317.14 | 6 | 339.78 | Pemberton | D. Della | Dead |
| Namder Prince | Jersey | 2 | 283.15 | 4 | 328.84 | 1 | 337.52 | 2 | 370.16 | 9 | 329.40 | Denmark | H. S. Redman | 7 |
| Muresk Justice | Guernsey | .... | .... | .... | .... | .... | .... | 9 | 321.00 | 9 | 321.00 | Rosa Brook | H. & T. Harrison | Dead |
| Drakesbrook Benefactor | do. | .... | .... | .... | .... | 2 | 344.50 | 7 | 310.85 | 9 | 318.33 | Harvey | A. R. Testar | 14? |
| The Towers Empire Prince | Jersey | 2 | 358.51 | 7 | 341.31 | 6 | 236.19 | 10 | 303.73 | 25 | 315.75 | Donnybrook | R. Benson | Dead |
| Ardersier Sir Eion | do. | .... | .... | 6 | 310.00 | .... | .... | .... | .... | 6 | 310.00 | Pinjarra | H. Skidmore | Dead |
| Korijekup Royal Star | do. | .... | .... | 6 | 293.50 | 1 | 367.00 | 7 | 312.57 | 14 | 308.29 | Harvey | A. G. Eckersley | .... |
| Radar Park September Lad | do. | 7 | 295.00 | .... | .... | .... | .... | 2 | 354.00 | 9 | 308.00 | do. | L. M. Temple | 6 |
| Summerlea Roland | A.I.S. | 1 | 314.00 | 1 | 121.00 | .... | .... | 6 | 333.83 | 8 | 304.75 | Margaret River | C. B. Fennell | .... |
| Denmark Dawn's Goldseeker | Guernsey | 10 | 257.20 | 3 | 286.33 | 5 | 308.80 | 10 | 339.40 | 28 | 299.00 | Albany | Farr Bros. | 10 |
| Werribie Davis | Jersey | .... | .... | 5 | 303.33 | .... | .... | 1 | 271.00 | 6 | 297.83 | Denmark | J. W. Middleton | 10 |
| Leylands Foch | A.I.S. | .... | .... | .... | .... | .... | .... | 16 | 297.35 | 16 | 297.35 | Waroona | H. J. Mullins | 15? |
| Summerlea Peter | do. | .... | .... | .... | .... | .... | .... | 7 | 297.00 | 7 | 297.00 | S. Cowaramup | A. W. Demoster | Dead |
| Avon Court Magnet | do. | .... | .... | .... | .... | .... | .... | 10 | 294.86 | 10 | 294.86 | Ruabon | H. W. Semmens & Son | .... |
| Koojan Banker | Guernsey | .... | .... | .... | .... | 3 | 288.00 | 6 | 290.00 | 9 | 289.44 | Albany | C. J. Jarrat & A. Bracknell | Dead |
| Column Mount Rose | Jersey | .... | .... | 3 | 239.00 | 5 | 318.00 | .... | .... | 8 | 288.62 | N. Cowaramup | G. Penfold | Dead |
| Westby Commander | A.I.S. | 4 | 263.37 | 2 | 240.34 | 5 | 292.25 | 12 | 330.92 | 23 | 288.50 | Denmark | F. C. Smith | .... |
| Walgett Ruby's Nobel | Jersey | .... | .... | 3 | 296.00 | 9 | 308.00 | 6 | 256.00 | 18 | 287.00 | Nannup | S. C. Maidment | Dead |
| Lansdowne Ferdinand | Guernsey | .... | .... | 6 | 259.33 | 2 | 282.00 | 9 | 313.00 | 17 | 285.70 | Forest Grove | J. H. Oldfield | Dead |
| Colmyn Golden III. | Jersey | .... | .... | .... | .... | .... | .... | 17 | 285.60 | 17 | 285.60 | Metricup | A. S. Mutimer | 11 |
| Wooroloo Nobel II. | A.I.S. | .... | .... | 11 | 253.00 | 9 | 291.00 | 9 | 318.00 | 29 | 285.00 | Harvey | S. Fry | Dead |
| Murray Glen Lord Avon | Friesian | .... | .... | 9 | 301.00 | 9 | 259.00 | 13 | 284.00 | 31 | 282.00 | do. | F. Byrd | Dead |
| Victoria Robin Hood | Red Poll | .... | .... | 5 | 292.00 | .... | .... | 1 | 232.00 | 6 | 282.00 | Mt. Barker | F. R. H. Pugh & Son | 13 |
| Longridge Redman | A.I.S. | .... | .... | 2 | 229.00 | 6 | 249.50 | 21 | 291.57 | 29 | 278.00 | Pinjarra | S. Mullins | Dead |
| Norinya Nimble | Jersey | .... | .... | 2 | 242.50 | 1 | 191.00 | 9 | 295.11 | 12 | 277.67 | Harvey | A. Stanford | 10 |
| Plenarbor Master | A.I.S. | .... | .... | 1 | 304.00 | 5 | 266.00 | 6 | 275.00 | 12 | 274.00 | Pinjarra | S. Mullins | 8 |
| Grassvale Design's Ruler | Jersey | 10 | 206.00 | 10 | 278.00 | 4 | 294.00 | 19 | 303.00 | 43 | 274.00 | Donnybrook | E. W. M. Trigwell | 12 |
| Rosella Commander | Guernsey | 5 | 239.00 | 9 | 280.00 | 3 | 296.00 | .... | .... | 17 | 271.00 | Rosa Brook | T. F. Busby | 7 |
| Koojan Ideal Excelsior | Guernsey | 8 | 241.25 | 4 | 308.25 | 1 | 333.00 | 1 | 283.00 | 14 | 269.21 | Forest Grove | E. G. Noakes | 8 |
| Plenarbor Barney | A.I.S. | .... | .... | 8 | 263.37 | 8 | 269.62 | 1 | 269.00 | 17 | 266.47 | Waroona | H. J. Mullins | 8 |
| Uplands Gray Lad | .... | .... | .... | .... | .... | 3 | 244.83 | 14 | 269.99 | 17 | 265.43 | Pemberton | A. J. S. Angel | Dead |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Colmyn Snowflake Chief | Jersey | .... | .... | .... | .... | 1 | 316.00 | 5 | 253.60 | 6 | 264.00 | Rosa Brook | G. Crosier & Son | Dead |
| Muresk Jerome | Guernsey | .... | .... | 1 | 251.00 | 2 | 251.50 | 3 | 276.33 | 6 | 263.88 | Wilga | J. S. Charteris | .... |
| Brookfield Bulwark | do. | 3 | 191.00 | 6 | 288.00 | 3 | 336.00 | 1 | 200.00 | 13 | 262.00 | Albany | L. Jordan | 9 |
| Eungella Golden Starbright | Jersey | 9 | 265.00 | 2 | 223.00 | 1 | 296.00 | .... | .... | 12 | 261.00 | Pinjarra | T. Abbott | Dead |
| Moorelands Julian | do. | .... | .... | .... | .... | .... | .... | 7 | 259.80 | 7 | 259.80 | Pemberton | J. J. Littlefair | 15? |
| Brackenhurst Gibson Champagne II. | A.I.S. | .... | .... | 10 | 252.00 | 3 | 269.00 | 14 | 260.00 | 27 | 258.00 | Nannup | S. C. Maidment | 13 |
| Barrowdale Lucky Lad | Jersey | 5 | 213.60 | 4 | 260.25 | 3 | 312.00 | .... | .... | 12 | 253.75 | Albany | Hawley Bros. | 8 |
| Killara Merry Chief | do. | .... | .... | 3 | 230.66 | 4 | 262.50 | .... | .... | 7 | 249.00 | Nannup | D. Cole | .... |
| Melbury Chief | A.I.S. | .... | .... | .... | .... | .... | .... | 10 | 247.00 | 10 | 247.00 | Margaret River | J. A. Nilsson | Dead |
| Hopelands Golden Boy | Jersey | 11 | 242.63 | 1 | 293.00 | .... | .... | 1 | 222.00 | 13 | 244.62 | Nannup | V. Knapton | 5 |
| Drakesbrook Kingfisher | Guernsey | 4 | 226.25 | 3 | 264.66 | 2 | 263.00 | 2 | 232.00 | 11 | 244.46 | Harvey | A. R. Testar | 14 |
| Muresk Pathfinder | do. | .... | .... | .... | .... | 1 | 191.00 | 5 | 255.00 | 6 | 244.00 | Rosabrook | T. F. Busby | 13 |
| Rosella Warrior | do. | 4 | 217.35 | 1 | 306.00 | 2 | 263 50 | .... | .... | 7 | 243.14 | Margaret River | F. Tarchini | 7 |
| Capel Rosemary's Commodore | A.I.S. | .... | .... | 1 | 191.00 | 1 | 206 00 | 11 | 249.00 | 13 | 241.15 | Forest Grove | A. Rocchi | Dead |
| Lansdowne Lancelot | Guernsey | .... | .... | .... | .... | .... | .... | 6 | 239.83 | 6 | 239.83 | Pinjarra | B. Nancarrow | Dead |
| Rosella Majesty | do. | 3 | 150.33 | 2 | 262.50 | 1 | 220.00 | 5 | 286.60 | 11 | 239.00 | Margaret River | P. Jones | 10 |
| Croxton Commander | A.I.S. | 2 | 208.29 | 2 | 244.68 | 2 | 177.72 | 2 | 327.29 | 8 | 238.98 | Pemberton | J. J. Littlefair | .... |
| Koojan Beau Geste | Guernsey | 6 | 210.67 | 1 | 342.00 | .... | .... | 1 | 301.00 | 8 | 238.37 | Balingup | J. A. Dowrick | 10 |
| Denmark Rose's Viscount | do. | .... | .... | 1 | 204.00 | 3 | 250.00 | 14 | 236.00 | 18 | 237.00 | Northcliffe | J. R. Danbury | 13 |
| Cleeve Avon Cobber | Friesian | 5 | 258.00 | 1 | 81.00 | 1 | 227.00 | 3 | 254.00 | 10 | 236.40 | Harvey | F. Byrd | Dead |
| Congelin Eminent Mariner | Jersey | .... | .... | 1 | 182.00 | 6 | 244.00 | 3 | 258.00 | 10 | 236.00 | Metricup | C. R. Irvine | 7 |
| Drakesbrook Valour | Guernsey | 7 | 235.14 | .... | .... | .... | .... | .... | .... | 7 | 235.14 | Waroona | E. Marston | 7 |
| Juadine Captain | Jersey | .... | .... | 3 | 260.66 | 2 | 346.00 | 3 | 134 66 | 8 | 234.75 | Harvey | A. G. Eckersley | .... |
| San Soucci Double Success | do. | .... | .... | .... | .... | 1 | 217.00 | 8 | 233.00 | 9 | 231.00 | Pemberton | H. Styles | 14? |
| Woodsome Royal | Red Poll | 27 | 233.80 | 4 | 208.50 | .... | .... | .... | .... | 31 | 230 52 | Waroona | J. Salerian | Dead |
| Grantham Easter King | Jersey | .... | .... | .... | .... | .... | .... | 9 | 230.22 | 9 | 230 22 | Forest Grove | W. P. Morris | .... |
| Ilginup Evans Pietro | A.I.S. | 9 | 229.64 | .... | .... | .... | .... | .... | .... | 9 | 229.64 | Ruabon | J. Torrent | 5 |
| Dunmore David | Friesian | .... | .... | 5 | 241.00 | 8 | 218.00 | .... | .... | 13 | 227.00 | Nannup | V. Scott | 9 |
| Westby Grenadier | A.I.S. | 1 | 210.00 | 7 | 241.00 | 3 | 233.00 | 14 | 220.00 | 25 | 227.00 | Denmark | H. M. Bidwell | 10 |
| Wonga Park Patsy | Red Poll | 8 | 226.47 | .... | .... | .... | .... | .... | .... | 8 | 226.47 | Mt. Barker | F. R. H. Pugh & Son | .... |
| Sabina Vale Velvet Boy | Jersey | .... | .... | .... | .... | 2 | 318.00 | 11 | 207.00 | 13 | 224.00 | Nannup | A. Pollock | Dead |
| Rocky Glen Captain | A.I.S. | .... | .... | .... | .... | 1 | 174.00 | 5 | 234.00 | 6 | 224.00 | Albany | F. Pease | Dead |
| Brookfield Bachelor | Guernsey | 3 | 169.00 | 4 | 204.00 | 1 | 239.00 | 16 | 235.00 | 24 | 222.00 | Margaret River | W. B. Wickham | 13 |
| Muresk Jeremy | Guernsey | 3 | 165.00 | 4 | 234.00 | 1 | 235.00 | 3 | 250.00 | 11 | 220.00 | Wilga | R. Charteris | 9 |
| Juadine Northward Beau | Jersey | 7 | 219.00 | .... | .... | .... | .... | .... | .... | 7 | 219.00 | Balingup | F. J. Smith | 8 |
| Braeside Robin | A.I.S. | .... | .... | .... | .... | 1 | 271.93 | 8 | 211.49 | 9 | 218.21 | Pemberton | B. A. Rice | 10 |
| Ilginup Monarch Loyalist | A.I.S. | 7 | 196.00 | 4 | 245.00 | 1 | 253.00 | .... | .... | 12 | 217.00 | Waroona | L. Windus | 9 |
| Wooroloo Rosy III. Guardian | A.I.S. | .... | .... | .... | .... | 4 | 182.23 | 3 | 258.47 | 7 | 214.90 | Pemberton | W. Hamilton | .... |
| Grantham Forward March | Jersey | 7 | 172.00 | 6 | 247.00 | 3 | 206.00 | 4 | 206.00 | 20 | 207.00 | Waroona | J. Bowles & Son | Dead |
| Summerlea Peer | A.I.S. | .... | .... | 1 | 123.00 | 2 | 138.00 | 15 | 226.00 | 18 | 205.00 | Ruabon | F. L. Torrent | Dead |
| San Soucci Prince Winston | Jersey | 4 | 217.00 | 1 | 188.00 | 5 | 226.00 | 7 | 182.00 | 17 | 204.00 | Pemberton | H. Styles | Dead |
| Brackenhurst Reward | A.I.S. | 4 | 164.00 | 4 | 218.00 | 5 | 243.40 | 11 | 191.72 | 24 | 202.21 | Margaret River | W. & J. George | .... |
| Travalgan Rajah | Jersey | 11 | 205.00 | .... | .... | .... | .... | 3 | 189.00 | 14 | 202.00 | Wilga | Runciman & Inglis | Dead |
| Greenmount Silver King | do. | .... | .... | 2 | 182.00 | 1 | 101.00 | 6 | 224.00 | 9 | 201.00 | Donnybrook | Mrs. M. A. Crute | Dead |
| Glanavon Elder | A.I.S. | 8 | 175.40 | 3 | 263.75 | .... | .... | .... | .... | 11 | 199.49 | do. | M. C. Fry & Sons | 6 |
| Greenmount Masterpiece | Jersey | 2 | 205.50 | 6 | 168.00 | .... | .... | 4 | 237.25 | 12 | 197.25 | Forest Grove | W. P. Morris | .... |
| Clovelly Leo | Guernsey | .... | .... | 6 | 194.49 | .... | .... | .... | .... | 6 | 194.49 | Pemberton | B. A. Rice | 8 |
| Brookfield Hopeful | do. | .... | .... | .... | .... | .... | .... | 8 | 194.00 | 8 | 194.00 | Harvey | A. F. Dean | .... |
| Claremont Toby | A.I.S. | 3 | 185.00 | 2 | 201.00 | 1 | 202.00 | .... | .... | 6 | 193.16 | Balingup | D. Scott | Dead |
| Greenfields Prince | Guernsey | 3 | 158.66 | 1 | 210.00 | 4 | 208.50 | .... | .... | 8 | 190.00 | do. | H. H. Daniels | 7 |
| Summerlea Starlight | A.I.S. | .... | .... | .... | .... | 2 | 180.00 | 4 | 195.75 | 6 | 190.00 | Rosa Brook | E. A. McSwain | Dead |
| Summerlea Bruce | do. | 8 | 170.24 | 8 | 196.32 | 2 | 282.23 | .... | .... | 18 | 189.31 | Mt. Barker | L. Faulkner & Son | .... |
| Yokanup Ace | do. | 9 | 163.91 | 1 | 225.30 | .... | .... | .... | .... | 10 | 188.05 | do. | Cluett & Son | 6 |
| Royal General | Red Poll | 7 | 187.21 | .... | .... | .... | .... | .... | .... | 7 | 187.21 | do. | A. C. Townsend | .... |

TABLE 12—*continued.*

Bulls with Six or More Daughters Completing Lactation—*continued.*

| Bull. | Breed. | Daughters. | | | | | | | | | | Unit. | Owner. | Age of Bull. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 2 years Old. | | 3 years Old. | | 4 years Old. | | Mature. | | Total. | | | | |
| | | No. | Butter-fat Average. | No. | Butter-fat Average. | No. | Butter-fat Average. | No. | Butter-fat Average. | No. | Butter-fat Average. | | | |
| | | | lb. | | lb. | | lb. | | lb. | | lb. | | | |
| Brookfields Bugler | Guernsey | 5 | 186.20 | 5 | 188.00 | 4 | 175.00 | 9 | 186.32 | 23 | 184.83 | Harvey | M. Risbey | 9 |
| Clovelly Golden Treasure | do. | .. | .. | 11 | 182.70 | .. | .. | 1 | 179.00 | 12 | 182.00 | Nannup | S. Grimes | 6 |
| Many Peaks Corporal | Red Poll | 4 | 161.50 | .. | .. | 1 | 153.00 | 1 | 283.00 | 6 | 180.33 | Albany | F. Pease | .. |
| Glanavon Ember | A.I.S. | 8 | 169.50 | 4 | 198.50 | .. | .. | .. | .. | 12 | 179.16 | Wilga | C. D. Brown | 6 |
| Denmark Golden Nimrod | Guernsey | 1 | 150.30 | 4 | 164.59 | 1 | 219.00 | 4 | 186.88 | 10 | 177.45 | Denmark | J. Richardson | 10 |
| Grass Vale Golden Lad | Jersey | .. | .. | .. | .. | .. | .. | 15 | 177.00 | 15 | 177.00 | Vasse-Jindong | Radford Park Co. | 8 |
| Grass Vale Havelock | do. | 1 | 148.00 | .. | .. | .. | .. | 12 | 179.00 | 13 | 176.84 | do. | do. do. | 4 |
| Parkview Ullrys Commodore | A.I.S. | 11 | 176.23 | .. | .. | .. | .. | .. | .. | 11 | 176.23 | Mt. Barker | C. H. Bailey | .. |
| Basildene Charlie | do. | 7 | 169.14 | 1 | 211.00 | 6 | 216.16 | 1 | 171.00 | 15 | 172.50 | Margaret River | W. B. Wickham | .. |
| Yokanup Chief | do. | 6 | 160.01 | .. | .. | .. | .. | .. | .. | 6 | 160.01 | Mt. Barker | W. W. Fellows | .. |
| Hilton Srategist IV. | Red Poll | 6 | 124.16 | 5 | 197.20 | .. | .. | 1 | 107.00 | 12 | 153.16 | Forest Grove | H. E. Gale | 7 |
| Dunmore Judster | Friesian | 3 | 156.00 | .. | .. | .. | .. | 3 | 150.00 | 6 | 153.00 | Nannup | J. Gale | .. |
| Glanavon Mozart | A.I.S. | 4 | 143.50 | 1 | 163.00 | 1 | 175.00 | .. | .. | 6 | 152.00 | Forest Grove | A. Rocchi | 6 |
| Brookfields Bengal | Guernsey | 5 | 140.80 | 1 | 128.00 | 4 | 147.75 | .. | .. | 10 | 142.30 | Harvey | G. W. & H. C. Robinson | Dead |
| Glanavon Edison | A.I.S | 9 | 135.84 | .. | .. | .. | .. | .. | .. | 9 | 135.84 | Mt. Barker | H. McClure & Son | .. |

The averages are simple for all daughters with a minimum of six. The number and the average yields for the various age classes are also given.

As previously, the disappointing feature is the number of high quality bulls which are already dead. The old slogan of Breed, Feed and Weed, is still applicable to dairy farming. Emphasis must be placed on the "Breed" or quality of the cow, as no matter how much good feed or how efficient the management, yields cannot be greater than the limit imposed by inheritance. It has been shown that the rate of improvement achieved by the selection of the best daughters from the best cows by good bulls is slow. In many cases where wastage is high it is not a means of improvement but simply one of preventing deterioration.

As the quality of herds improves so this method approaches its limit of usefulness and the bull proved to transmit producing capacity becomes the only one which is capable of getting higher yields.

Hence the information regarding actual performance is given for the sires of the cows under test, to assist farmers, who are urgently advised to try and procure herd sires with performances of note.

*Rate of Milking.*

Investigations into the rate of milking with machines were reported in an earlier issue of this Journal (XXVI, No. 2, pp. 99-100). The data is being collected again this year.

The investigation showed that the rate at which the cows passed through the bails varied with the size of machines. The longer times being recorded with the larger machines as follows:—

2 Unit Machines 7.2 minutes per cow.
3 Unit Machines 7.8 minutes per cow.
4 Unit Machines 9.3 minutes per cow.
5 Unit Machines 11.0 minutes per cow.
6 Unit Machines 11.2 minutes per cow.

The value of the lost time compared to a reasonable period of five minutes per cow, was calculated. For a 30 cow herd on a four unit machine it was shown to be £111.

The need for care in organising shed routine to eliminate waste of time was emphasised.

*Co-operative Dairy Farmers' Trophy.*

These trophies are at present the only awards in grade Herd Recording. They are given as follows:—

First Year of Testing: The herd with the highest average yield of butter-fat.

Second Year of Testing: The herd showing the greatest improvement in average yield over two years.

Third Year of Testing: The herd showing the greatest improvement in average yield over three years.

To assess the improvement a scale of points was adopted with a bias to the higher averages.

Details for the year 1948-9 are given in Table 13.

TABLE 13.

THE CO-OPERATIVE DAIRY FARMERS' TROPHY.

| Owner. | Unit. | Average Butterfat Production (lb.). | | Points Scored. |
|---|---|---|---|---|
| | | 1947–48. | 1948–49. | |
| W. Middleton | Denmark | 348 | 419 | 85.20 |
| G. Barnsby | Pemberton | 359 | 395 | 43.20 |
| D. G. Spark | Pinjarra | 333 | 366 | 39.60 |
| Sanders & Son | Northcliffe | 173 | 328 | 38.75 |
| O. Foan | Donnybrook | 380 | 407 | 35.10 |
| J. White | Rosa Brook | 179 | 319 | 35.00 |
| H. Pickering | Margaret River | 95 | 231 | 27.20 |
| G. V. Crooke | Cowaramup, South | 379 | 399 | 26.00 |
| E. G. Noakes | Forest Grove | 202 | 292 | 25.71 |
| C. Carver | Harvey | 249 | 336 | 24.85 |
| T. H. M. Lefroy | Cowaramup, North | 303 | 326 | 23.00 |
| J. J. Joyce | Albany | 217 | 292 | 21.42 |
| C. E. Jackson | Brunswick | 218 | 291 | 20.81 |
| A. R. Rodgers | Scotsdale | 136 | 240 | 20.80 |
| D. Colum | Waroona | 251 | 310 | 19.60 |
| A. D. Jones | Manjimup | 178 | 252 | 18.50 |
| T. K. Daley | Vasse-Jindong | 139 | 211 | 14.40 |
| A. L. Lee | Balingup | 185 | 242 | 14.25 |
| D. Cole | Nannup | 183 | 234 | 12.75 |
| J. Thompson | Wilga | 183 | 227 | 11.00 |
| J. Hart | Metricup | 239 | 269 | 8.57 |
| H. J. Shepherd | Mt. Barker | 206 | 222 | 4.57 |
| L. P. J. Reilly | Ruabon | 188 | 205 | 4.25 |
| H. Pearce | Bridgetown | 189 | 191 | 1.00 |

*Leading Herds.*

The performances of the leading herds of various sizes are given in the following Tables 14, 15, 16 and 17.

TABLE 14.

LEADING HERDS OF LESS THAN 20 COWS.

| Name of Owner. | Unit. | No. of Cows. | Breed. | Butterfat Average (lb.) |
|---|---|---|---|---|
| Middleton, W. | Denmark | 19 | Jersey | 418·92 |
| Smith, W. J. | Scotsdale | 14 | Guernsey | 411.19 |
| Barnsby, G. H. | Pemberton | 15 | Guernsey | 394.67 |
| Spark, D. G. | Pinjarra | 19 | Jersey | 365.63 |
| Boardman, F. | Ruabon | 10 | Guernsey-A.I.S. X | 338.22 |
| White, J. | Rosa Brook | 12 | A.I.S. | 318.83 |
| Larsen, F. | Cowaramup, North | 19 | Mixed | 318.76 |
| Pate, G. | Denmark | 17 | Mixed | 318·22 |
| Ward, G. | Cowaramup, South | 14 | Guernsey | 318.00 |
| Smith, R. | Northcliffe | 13 | Jersey | 316.80 |
| Stephens, J. T. | Scotsdale | 18 | Mixed | 312.84 |

| Name of Owner. | Unit. | No. of Cows. | Breed. | Butterfat Average (lb.) |
|---|---|---|---|---|

Table 14—*continued.*

| | | | | |
|---|---|---|---|---|
| Crute, Mrs., M. A. | Donnybrook | 14 | Jersey | 310.79 |
| Redman, H. S. | Denmark | 18 | Jersey | 309.99 |
| Layman, G. | Donnybrook | 6 | Jersey and A.I.S. | 306.91 |
| Barry, J. M. | Scotsdale | 12 | Jersey-Shorthorn X | 304.26 |
| Maxwell, A. | Rosa Brook | 14 | Mixed | 300.49 |
| Henderson, R. J. | Rosa Brook | 18 | Mixed | 296.57 |
| Temple, L. M. | Harvey | 19 | Jersey Friesian X | 293.58 |
| Morgan, B. I. | Manjimup | 14 | Mixed | 293.50 |
| Joyce, J. J. | Albany | 15 | Mixed | 292.33 |
| Jarvis, J. | Donnybrook | 18 | Mixed | 291.73 |
| Robinson, W. A. and M. E. | Cowaramup, North | 12 | Mixed | 290.77 |
| Blight, R. | Denmark | 12 | Guernsey | 285·92 |
| West, S. and M. | Rosa Brook | 12 | Jersey | 281.87 |
| Hawkesford, H. | Cowaramup, North | 13 | Mixed | 280.91 |
| Bignell, E. | Cowaramup, North | 15 | Mixed | 272.77 |
| Hunwick, R. J. | Forest Grove | 18 | Jersey | 271.83 |
| Doak, F. | Rosa Brook | 16 | Mixed | 270.80 |
| Jackman, L. A. | Armadale | 16 | Friesian X | 270.68 |
| Hansen, E. A. | Margaret River | 16 | Mixed | 270.37 |
| McLaren, W. J. | Albany | 15 | Guernsey and Shorthorn | 269.67 |
| Streatfield, E. | Margaret River | 9 | Shorthorn and Jersey X | 267.00 |
| Bushby, J. L. | Forest Grove | 13 | Mixed | 262.07 |
| DeCampo, L. | Pemberton | 18 | Shorthorn X | 261.44 |
| Brenton, S. | Denmark | 17 | Guernsey and Jersey X | 260·11 |
| Holben, W. | Cowaramup, South | 17 | Mixed | 259.60 |
| Gregson, R. W. | Forest Grove | 19 | Guernsey | 259.47 |
| Oregione, E. | Manjimup | 11 | Mixed | 256.30 |
| Shepherd, J. O. | Manjimup | 14 | Mixed | 256.00 |
| Moran, J. and F. | Albany | 12 | Guernsey and Shorthorn | 255.75 |
| McLaren, J. | Forest Grove | 18 | Mixed | 255.11 |
| Palfrey, A. G. | Pemberton | 10 | Mixed | 253.30 |
| Brenton, G. | Denmark | 5 | Guernsey | 252·01 |
| Jones, A. D. | Manjimup | 13 | Mixed | 252.00 |
| Parker, G. S. | Cowaramup, South | 16 | Mixed | 251.43 |
| George, W. | Margaret River | 15 | Jersey and Shorthorn | 251.00 |

TABLE 15.

LEADING HERDS OF 20 TO 30 COWS.

| | | | | |
|---|---|---|---|---|
| Foan, O. | Donnybrook | 21 | Jersey | 407.41 |
| Crooke, G. V. | Cowaramup, South | 20 | Jersey X | 398.75 |
| Della, D. | Pemberton | 24 | Guernsey | 364.94 |
| Heathcote, C. and V. | Northcliffe | 25 | Mixed | 336.60 |
| Carver, C. | Harvey | 22 | Mixed | 336.09 |
| Sanders & Son | Northcliffe | 25 | Mixed | 327·80 |
| Lefroy, T. H. M. | Cowaramup, North | 27 | Mixed | 325.95 |
| Jackson, T. W. | Waroona | 27 | Mixed | 319.30 |
| Harrison, H. & T. | Rosa Brook | 30 | Mixed | 313.87 |
| Brennan, M. | Balingup | 28 | Guernsey and Jersey | 312.00 |
| Dowrick, J. A. | Balingup | 30 | Mixed | 310.86 |
| Fennell, C. B. | Margaret River | 22 | Shorthorn and Jersey | 305.54 |
| Riising, K. | Northcliffe | 21 | Mixed | 301.00 |

Table 15—*continued.*

| Name of Owner. | Unit. | No. of Cows. | Breed. | Butterfat Average lb. |
|---|---|---|---|---|
| Plozza, C. W. | Denmark | 26 | Jersey-Shorthorn X | 300.00 |
| Colum, P. J. | Waroona | 28 | Shorthorn-Jersey X | 299.79 |
| Abbott, T. | Pinjarra | 20 | Jersey | 299.20 |
| Gibbs, A. L. | Cowaramup, North | 23 | Mixed | 294.74 |
| Hick, E. F. | Scotsdale | 21 | Jersey | 292.48 |
| Stirling, N. | Margaret River | 20 | Jersey X | 292·30 |
| Webster, W. | Cowaramup, North | 22 | Shorthorn-Jersey X | 288.85 |
| Lang, A. R. | Margaret River | 29 | Mixed | 285.62 |
| Beckett, K. G. | Metricup | 29 | Jersey X Shorthorn | 283.31 |
| Palmer, R. K. | Cowaramup, North | 22 | Jersey X Shorthorn | 283.18 |
| Silvester. H. | Cowaramup, South | 20 | Mixed | 269.80 |
| Hart, J. | Metricup | 23 | Mixed | 269·39 |
| Testar, A. R. | Harvey | 27 | Guernsey | 268·78 |
| Duggan, W. | Cowaramup, North | 20 | Mixed | 266.60 |
| Scott, V. | Nannup | 29 | Friesian | 265.30 |
| Robinson, A. | Waroona | 21 | Mixed | 264.71 |
| Mutimer, A. S. | Metricup | 25 | Jersey | 264.16 |
| Allwood, F. | Albany | 27 | Guernsey | 264.11 |
| Marshall, N. E. | Scotsdale | 24 | Guernsey | 259.08 |
| Hortin, F. V. | Albany | 26 | Mixed | 258·88 |
| Moyes, H. S. and P. D. | Bridgetown | 29 | Shorthorn | 256.72 |
| Wetherly, L. M. | Ruabon | 25 | A.I.S. | 256.49 |
| George, T. B. | Cowaramup, North | 26 | Jersey | 254.96 |
| Becker, C. | Cowaramup, North | 24 | Mixed | 251.42 |
| Puls Bros. | Albany | 28 | Mixed | 250.61 |
| Dennis, F. | Rosa Brook | 29 | Mixed | 250.34 |

TABLE 16.

LEADING HERDS OF 31 TO 50 COWS.

| | | | | |
|---|---|---|---|---|
| Benson, R. | Donnybrook | 31 | Jersey | 309·98 |
| Noakes, E. G. | Forest Grove | 38 | Mixed | 292.44 |
| Langley, A. W. and W. L. | Cowaramup, South | 42 | Shorthorn and A.I.S. | 290.90 |
| Jackson, C. E. | Brunswick | 36 | Jersey | 290.72 |
| Trigwell, E. W. M. | Donnybrook | 34 | Jersey | 290·35 |
| Cunningham, A. W. | Armadale | 50 | Friesian | 288·16 |
| Farr Bros. | Albany | 46 | Guernsey and Shorthorn | 286.83 |
| Smith, F. | Denmark | 31 | Mixed | 285·86 |
| Gilmour, J. (Jr.) | Brunswick | 37 | Guernsey | 278.76 |
| McNeil, H. H. | Waroona | 41 | Shorthorn X | 278.34 |
| Reading, R. P. | Vasse-Jindong | 42 | Mixed | 274.21 |
| Blomfield, B. | Armadale | 31 | Red Poll and Guernsey | 271.61 |
| Edwards, P. J. | Brunswick | 39 | Mixed | 267.46 |
| Glendon, J. E. | Ruabon | 41 | A.I.S. | 266.39 |
| Mullins, H. J. | Waroona | 45 | A.I.S. | 266.22 |
| Oldfield, J. H. | Forest Grove | 39 | Mixed | 265.74 |
| Smith, F. | Balingup | 32 | Jersey | 262.84 |
| Arthur, E. J. | Rosa Brook | 46 | Mixed | 260.91 |
| Angell, J. | Rosa Brook | 34 | Jersey | 258.80 |
| Wood, W. J. | Rosa Brook | 36 | Mixed | 257.50 |
| Chapman, K. | Wilga | 31 | Mixed | 257.40 |
| Bashford, J. | Northcliffe | 33 | Mixed | 255.50 |
| Busby, T. | Rosa Brook | 39 | Guernsey | 252.19 |

TABLE 17.

LEADING HERDS OF 51 COWS OR MORE.

| Name of Owner. | Unit. | No. of Cows. | Breed. | But terfat Average lb. |
|---|---|---|---|---|
| Bassett Scarfe Bros. | Armadale | 102 | Mixed | 287·49 |
| Knapton, V. | Nannup | 53 | Jersey | 286.30 |
| Semmens, H. W. | Ruabon | 55 | Jersey | 279.40 |
| Pugh, F. R. H. | Mt. Barker | 57 | Mixed | 275.55 |
| Beacham, R. | Pinjarra | 51 | Mixed | 265.92 |
| Maidment, S. C. | Nannup | 57 | Mixed | 258.20 |
| Mullins, S. | Pinjarra | 72 | A.I.S. | 242.95 |
| Fry, S. | Harvey | 68 | Shorthorn and Friesian X | 231.10 |
| Salerian, J. | Waroona | 82 | Red Poll and Jersey | 219.57 |
| Stewart, G. A. | Brunswick | 62 | Mixed | 205.55 |
| Grimes, S. | Nannup | 52 | Guernsey and Jersey | 202.50 |

*Highest Producing Cows in Each Unit.*

The leading cows in each unit with their yields are named in Table 18.

TABLE 18.

THE HIGHEST PRODUCING COW IN EACH UNIT.

| Name of Owner. | Unit. | Name of Cow. | Breed. | Milk. | Test. | Butterfat. |
|---|---|---|---|---|---|---|
| | | | | lb. | % | lb. |
| Bassett Scarf Bros. | Armadale | No. 99 | Fresian x Jersey | 14,538 | 4.4 | 629.00 |
| Smith, W. J. | Scotsdale | Madge | Guernsey | 9,966 | 6.1 | 609.67 |
| McNeil, H. H. | Waroona | No. 44 | Shorthorn | 12,365 | 4.6 | 572.00 |
| Beckett, K. G. | Metricup | Fay | Jersey | 9,744 | 5.6 | 554.66 |
| Doak, F. | Rosa Brook | Maisie | Jersey x Fresian | 12,045 | 4.4 | 536.01 |
| Lefroy, T. H. M. | Cowaramup, North | Sara | Guernsey x Shorthorn | 9,660 | 5.5 | 535.52 |
| Saunders, K. & Son | Northcliffe | Brindle | Jersey x Guernsey | 9,135 | 5.7 | 525.00 |
| Torrent, J. | Ruabon | Anna | A.I.S. | 9,198 | 5.5 | 519.60 |
| Foan, O. | Donnybrook | Browny | Jersey | 9,174 | 5.6 | 516.34 |
| Crooke, G. V. | Cowaramup South | Betty II. | Jersey | 11,325 | 4.5 | 516.00 |
| Mullins, S. | Pinjarra | Dora | Jersey | 11,260 | 4.5 | 509.00 |
| Barnsby, G. | Pemberton | Betty | Guernsey | 7,495 | 6.6 | 499.82 |
| Pugh, F. R. H. & Son | Mt. Barker | Fairy | Red Poll x Jersey | 13,500 | 3.5 | 477.00 |
| Fry, S. | Harvey | Eliza | A.I.S. | 9,594 | 5.0 | 474.00 |
| Gilmour, J. (Jr.) | Brunswick | Roana | Guernsey | 8,436 | 5.5 | 464.91 |
| Haughton, F. V. | Albany | Ettie | Shorthorn x Jersey | 9,353 | 4.8 | 451.00 |
| Bolt, L. L. | Denmark | Girlie | Jersey | 9,063 | 4.9 | 448.26 |
| Fennell, C. B. | Margaret River | Isobel | A.I.S. | 10,853 | 4.1 | 446.00 |
| Brennan, M. | Balingup | Pearl | Jersey x Guernsey | 9,890 | 4.4 | 444.00 |
| Maidment, S. C. | Nannup | Leo | Jersey x Shorthorn | 9,385 | 4.6 | 429.00 |
| Morgan, B. I. | Manjimup | Frisky | Jersey | 9,348 | 4.5 | 425.00 |
| Oldfield, J. H. | Forest Grove | Nell | Guernsey x Jersey | 8,228 | 5.2 | 422.72 |
| Moyes, H. S. & P.D. | Bridgetown | Reggio | A.I.S. | 9,651 | 4.3 | 421.00 |
| Reading, R. P. | Vasse-Jindong | Jill | Jersey x Shorthorn | 8,335 | 4.9 | 415.00 |
| Chapman, K. | Wilga | Jenny | Jersey | 7,540 | 5.4 | 414.00 |

The details of the average yield and number of cows in each herd in each unit is given in the following tables.

PINJARRA A.

| Herd. | No. of Cows. | Milk Average. gals. | Butter-fat Average. lb. |
|---|---|---|---|
| D. G. Spark .... | 19 | 710 | 366 |
| T. Abbott .... | 20 | 578 | 299 |
| R. Beacham .... | 51 | 628 | 266 |
| Herd P .... .... | 28 | 622 | 243 |
| „ Z .... .... | 72 | 597 | 243 |
| „ T .... .... | 19 | 523 | 233 |
| „ A* .... | 33 | 541 | 229 |
| „ F .... .... | 38 | 551 | 221 |
| „ X .... .... | 36 | 503 | 215 |
| „ B* .... | 37 | 459 | 210 |
| „ T* .... | 28 | 494 | 207 |
| „ U .... .... | 43 | 504 | 202 |
| „ R* .... | 26 | 479 | 190 |
| „ P* .... | 38 | 416 | 179 |
| „ K .... .... | 34 | 375 | 168 |
| „ V .... .... | 22 | 297 | 144 |
| „ L* .... | 20 | 314 | 142 |
| „ O .... .... | 57 | 293 | 125 |

WAROONA B.

| Herd. | No. of Cows. | Milk Average. gals. | Butter-fat Average. lb. |
|---|---|---|---|
| T. W. Jackson .... | 27 | 707 | 319 |
| P. J. Colum .... | 28 | 683 | 300 |
| H. H. McNeil .... | 41 | 622 | 278 |
| Herd V .... .... | 45 | 694 | 266 |
| „ I .... .... | 21 | 580 | 265 |
| „ C .... .... | 34 | 541 | 249 |
| „ G .... .... | 34 | 502 | 235 |
| „ R .... .... | 28 | 560 | 233 |
| „ M .... .... | 82 | 474 | 220 |
| „ Q .... .... | 26 | 497 | 217 |
| „ T .... .... | 35 | 425 | 214 |
| „ W .... .... | 25 | 494 | 208 |
| „ B .... .... | 27 | 460 | 204 |
| „ X .... .... | 21 | 459 | 193 |
| „ P .... .... | 37 | 410 | 169 |
| „ Y .... .... | 30 | 274 | 126 |

HARVEY C.

| Herd. | No. of Cows. | Milk Average. gals. | Butter-fat Average. lb. |
|---|---|---|---|
| C. Carver .... | 22 | 765 | 336 |
| L. M. Temple .... | 19 | 599 | 294 |
| A. R. Testar .... | 27 | 557 | 269 |
| Herd B .... .... | 40 | 644 | 246 |
| „ A .... .... | 40 | 469 | 244 |
| „ U .... .... | 45 | 538 | 237 |
| „ E .... .... | 45 | 516 | 234 |
| „ C .... .... | 34 | 532 | 232 |
| „ X .... .... | 68 | 549 | 231 |
| „ D .... .... | 48 | 555 | 226 |
| „ K .... .... | 37 | 535 | 217 |
| „ M .... .... | 58 | 489 | 190 |
| „ R .... .... | 32 | 340 | 184 |
| „ Z .... .... | 56 | 454 | 180 |
| „ S .... .... | 26 | 330 | 151 |
| „ A* .... | 19 | 326 | 150 |

BRUNSWICK D.

| Herd. | No. of Cows. | Milk Average. gals. | Butter-fat Average. lb. |
|---|---|---|---|
| C. E. Jackson .... | 36 | 554 | 291 |
| J. Gilmour (Jr.) | 37 | 589 | 279 |
| P. J. Edwards .... | 39 | 537 | 267 |
| Herd R .... .... | 21 | 550 | 247 |
| „ Z .... .... | 35 | 498 | 242 |
| „ O .... .... | 25 | 536 | 223 |
| „ A* .... | 15 | 444 | 221 |
| „ S .... .... | 36 | 472 | 211 |
| „ T .... .... | 35 | 409 | 206 |
| „ B* .... | 33 | 442 | 206 |
| „ U .... | 62 | 490 | 206 |
| „ X .... | 34 | 430 | 179 |
| „ Y .... .... | 35 | 329 | 157 |

RUABON E.

| Herd. | No. of Cows. | Milk Average. gals. | Butter-fat Average. lb. |
|---|---|---|---|
| F. Boardman .... | 10 | 772 | 338 |
| H. W. Semmens | 55 | 631 | 279 |
| J. E. Glendon .... | 41 | 645 | 266 |
| Herd N .... .... | 25 | 641 | 256 |
| „ M .... .... | 48 | 596 | 245 |
| „ D .... .... | 56 | 590 | 239 |
| „ Z .... .... | 40 | 542 | 228 |
| „ T .... .... | 33 | 505 | 212 |
| „ A .... .... | 30 | 457 | 208 |
| „ E* .... | 32 | 503 | 205 |
| „ G .... .... | 50 | 504 | 203 |
| „ H .... .... | 38 | 441 | 180 |
| „ D* .... | 31 | 426 | 179 |
| „ B .... .... | 66 | 432 | 178 |
| „ Q .... .... | 29 | 427 | 175 |
| „ X .... | 35 | 397 | 161 |
| „ F* .... | 38 | 418 | 161 |
| „ C* .... | 25 | 368 | 155 |
| „ DB .... | 41 | 391 | 149 |

METRICUP F.

| Herd. | No. of Cows. | Milk Average. gals. | Butter-fat Average. lb. |
|---|---|---|---|
| K. G. Beckett .... | 29 | 576 | 283 |
| J. Hart .... .... | 23 | 598 | 269 |
| A. S. Mutimer .... | 25 | 552 | 264 |
| Herd F .... .... | 16 | 550 | 238 |
| „ L* .... | 21 | 526 | 225 |
| „ R* .... | 22 | 498 | 205 |
| „ O .... .... | 23 | 479 | 191 |
| „ K* .... | 59 | 422 | 178 |
| „ X .... .... | 36 | 386 | 165 |
| „ P .... .... | 24 | 322 | 156 |
| „ T .... .... | 30 | 344 | 151 |
| „ E* .... | 6 | 297 | 137 |
| „ R .... .... | 16 | 280 | 136 |
| „ G* .... | 14 | 292 | 128 |
| „ Y .... .... | 32 | 237 | 115 |
| „ Z .... .... | 16 | 250 | 110 |

* Inverted.

NORTH COWARAMUP G.

| Herd. | No. of Cows. | Milk Average. gals. | Butter-fat Average. lb. |
|---|---|---|---|
| T. H. M. LeFroy | 27 | 677 | 326 |
| F. Lassen .... | 19 | 659 | 319 |
| A. L. Gibbs .... | 23 | 610 | 295 |
| Herd FF .... | 12 | 545 | 291 |
| ,, W.... .... | 22 | 609 | 289 |
| ,, M.... .... | 22 | 602 | 283 |
| ,, Z .... .... | 13 | 583 | 281 |
| ,, BB .... | 15 | 541 | 273 |
| ,, G .... .... | 20 | 586 | 267 |
| ,, A .... .... | 26 | 501 | 255 |
| ,, A* .... | 24 | 534 | 251 |
| ,, J .... .... | 27 | 528 | 247 |
| ,, DD .... | 16 | 464 | 235 |
| ,, WV .... | 24 | 501 | 233 |
| ,, CC .... | 22 | 448 | 227 |
| ,, C* .... | 19 | 453 | 221 |
| ,, X .... | 39 | 490 | 221 |
| ,, B* .... | 9 | 395 | 182 |
| ,, K.... .... | 12 | 362 | 155 |

MARGARET RIVER I.

| Herd. | No. of Cows. | Milk Average. gals. | Butter-fat Average. lb. |
|---|---|---|---|
| C. B. Fennell .... | 22 | 662 | 306 |
| N. Stirling .... | 20 | 607 | 292 |
| A. R. Lang .... | 29 | 675 | 286 |
| Herd L .... .... | 16 | 616 | 270 |
| ,, T .... .... | 9 | 633 | 267 |
| ,, P .... .... | 15 | 589 | 251 |
| ,, N .... .... | 17 | 520 | 244 |
| ,, XV .... | 31 | 628 | 244 |
| ,, B* .... | 17 | 480 | 235 |
| ,, A* .... | 23 | 506 | 231 |
| ,, D* .... | 13 | 510 | 226 |
| ,, S .... .... | 22 | 524 | 213 |
| ,, D .... .... | 36 | 508 | 212 |
| ,, O .... .... | 15 | 449 | 201 |
| ,, Q* .... | 25 | 491 | 195 |
| ,, P* .... | 24 | 441 | 184 |
| ,, XR .... | 58 | 368 | 168 |

SOUTH COWARAMUP H.

| Herd. | No. of Cows. | Milk Average. gals. | Butter-fat Average. lb. |
|---|---|---|---|
| G. V. Crooke .... | 20 | 780 | 399 |
| G. Ward .... | 14 | 660 | 318 |
| A. W. and W. L. Langley .... | 42 | 728 | 291 |
| Herd Q .... .... | 20 | 620 | 270 |
| ,, HH .... | 17 | 571 | 260 |
| ,, EE .... | 16 | 552 | 251 |
| ,, DD .... | 32 | 608 | 238 |
| ,, KK .... | 8 | 610 | 231 |
| ,, F .... .... | 17 | 438 | 227 |
| ,, A* .... | 26 | 498 | 219 |
| ,, C* .... | 16 | 466 | 217 |
| ,, D* .... | 26 | 446 | 206 |
| ,, E* .... | 20 | 478 | 206 |
| ,, G .... .... | 21 | 456 | 202 |
| ,, L .... .... | 25 | 387 | 197 |
| ,, V* .... | 3 | 376 | 138 |
| ,, S .... .... | 3 | 421 | 181 |
| ,, B* .... | 10 | 282 | 125 |
| ,, I .... .... | 14 | 238 | 97 |

ROSA BROOK J.

| Herd. | No. of Cows. | Milk Average. gals. | Butter-fat Average. lb. |
|---|---|---|---|
| J. White.... .... | 12 | 735 | 319 |
| H. and T. Harrison | 30 | 658 | 314 |
| A. Maxwell .... | 14 | 681 | 300 |
| Herd N .... .... | 18 | 597 | 297 |
| ,, O .... .... | 12 | 544 | 282 |
| ,, T .... .... | 16 | 548 | 271 |
| ,, X .... .... | 46 | 545 | 261 |
| ,, Y .... .... | 34 | 479 | 259 |
| ,, K .... .... | 36 | 578 | 258 |
| ,, C* .... | 39 | 502 | 252 |
| ,, L .... .... | 29 | 579 | 250 |
| ,, W.... .... | 19 | 521 | 248 |
| ,, AD .... | 15 | 475 | 245 |
| ,, M .... .... | 16 | 529 | 237 |
| ,, F .... .... | 25 | 557 | 235 |
| ,, AC .... | 18 | 485 | 233 |
| ,, P* .... | 23 | 483 | 229 |
| ,, AI .... | 14 | 523 | 228 |
| ,, AE .... | 32 | 414 | 219 |
| ,, AH .... | 19 | 433 | 214 |

* Inverted.

FOREST GROVE K.

| Herd. | No. of Cows. | Milk Average. gals. | Butter-fat Average. lb. |
|---|---|---|---|
| E. G. Noakes .... | 38 | 634 | 292 |
| R. J. Hunwick .... | 18 | 574 | 272 |
| J. H. Oldfield .... | 39 | 579 | 266 |
| Herd R* .... | 13 | 623 | 262 |
| „ U .... .... | 19 | 597 | 259 |
| „ M .... .... | 18 | 532 | 255 |
| „ R .... .... | 25 | 504 | 229 |
| „ G .... .... | 20 | 447 | 226 |
| „ CB .... | 19 | 484 | 221 |
| „ AE .... | 48 | 489 | 220 |
| „ Y* .... | 25 | 512 | 219 |
| „ O .... .... | 38 | 473 | 215 |
| „ CF .... | 30 | 428 | 214 |
| „ G* .... | 21 | 496 | 208 |
| „ A* .... | 16 | 466 | 207 |
| „ E* .... | 18 | 460 | 203 |
| „ C* .... | 15 | 416 | 194 |
| „ Y .... .... | 37 | 496 | 191 |
| „ B* .... | 22 | 483 | 188 |
| „ Z .... .... | 21 | 410 | 180 |
| „ F* .... | 19 | 394 | 166 |

BALINGUP M.

| Herd. | No. of Cows. | Milk Average. gals. | Butter-fat Average. lb. |
|---|---|---|---|
| M. Brennan .... | 28 | 687 | 312 |
| J. A. Dowrick .... | 30 | 663 | 311 |
| F. Smith .... | 32 | 549 | 263 |
| Herd BE .... | 25 | 553 | 243 |
| „ C .... .... | 27 | 521 | 242 |
| „ U .... .... | 23 | 508 | 238 |
| „ CH .... | 34 | 448 | 223 |
| „ CF .... | 28 | 548 | 222 |
| „ BA .... | 41 | 546 | 218 |
| „ BJ .... | 24 | 474 | 214 |
| „ BG .... | 22 | 450 | 212 |
| „ BM .... | 19 | 496 | 207 |
| „ BK .... | 28 | 431 | 206 |
| „ BN .... | 16 | 422 | 204 |
| „ N .... .... | 50 | 421 | 203 |
| „ V .... .... | 60 | 440 | 195 |
| „ CD .... | 59 | 458 | 182 |
| „ CE .... | 26 | 401 | 175 |
| „ CB .... | 14 | 367 | 153 |
| „ CA .... | 32 | 312 | 140 |

DONNYBROOK L.

| Herd. | No. of Cows. | Milk Average. gals. | Butter-fat Average. lb. |
|---|---|---|---|
| O. Foan .... .... | 21 | 785 | 407 |
| Mrs. M. A. Crute | 14 | 596 | 311 |
| R. Benson .... | 31 | 570 | 310 |
| Herd N .... .... | 6 | 609 | 307 |
| „ A* .... | 18 | 644 | 292 |
| „ Y .... .... | 34 | 595 | 290 |
| „ Q .... .... | 22 | 490 | 247 |
| „ J .... .... | 31 | 383 | 208 |
| „ C* .... | 26 | 438 | 204 |
| „ V .... .... | 44 | 506 | 204 |
| „ AB .... | 20 | 436 | 190 |
| „ B* .... | 18 | 366 | 185 |
| „ E* .... | 13 | 353 | 179 |
| „ D* .... | 20 | 369 | 165 |
| „ X .... .... | 28 | 340 | 160 |
| „ AC .... | 19 | 250 | 121 |
| „ A .... .... | 27 | 204 | 116 |

MANJIMUP O.

| Herd. | No. of Cows. | Milk Average. gals. | Butter-fat Average. lb. |
|---|---|---|---|
| B. I. Morgan .... | 14 | 622 | 294 |
| E. Origione .... | 11 | 569 | 256 |
| J. O. Shepherd .... | 14 | 481 | 256 |
| Herd G .... .... | 13 | 572 | 252 |
| „ Y .... .... | 9 | 588 | 241 |
| „ A* .... | 28 | 484 | 234 |
| „ AE .... | 15 | 534 | 226 |
| „ J .... .... | 28 | 471 | 213 |
| „ T .... .... | 20 | 423 | 204 |
| „ AF .... | 15 | 468 | 200 |
| „ C .... .... | 36 | 495 | 198 |
| „ G .... .... | 23 | 475 | 190 |
| „ AC .... | 22 | 420 | 187 |
| „ AD .... | 40 | 412 | 184 |
| „ V .... .... | 25 | 353 | 174 |
| „ U .... .... | 48 | 397 | 170 |
| „ AB .... | 24 | 378 | 167 |
| „ M .... .... | 35 | 380 | 158 |
| „ B .... .... | 34 | 384 | 157 |
| „ D* .... | 22 | 326 | 156 |
| „ R .... .... | 20 | 341 | 144 |
| „ X .... .... | 54 | 317 | 124 |
| „ P .... .... | 31 | 385 | 124 |

* Inverted.

BRIDGETOWN N.

| Herd. | No. of Cows. | Milk Average. gals. | Butter-fat Average. lb. |
|---|---|---|---|
| H. S. & E. D. Moyes .... .... | 29 | 662 | 257 |
| J. C. Williams .... | 32 | 451 | 231 |
| L. R. Beard .... | 18 | 443 | 210 |
| Herd IN .... | 28 | 416 | 200 |
| „ IS.... .... | 13 | 443 | 194 |
| „ L* .... | 13 | 443 | 194 |
| „ V .... .... | 38 | 377 | 191 |
| „ IV .... | 21 | 413 | 182 |
| „ A* .... | 15 | 414 | 181 |
| „ S .... .... | 30 | 408 | 180 |
| „ IK .... | 10 | 415 | 178 |
| „ IM .... | 36 | 388 | 177 |
| „ L .... .... | 22 | 399 | 176 |
| „ B* .... | 30 | 339 | 174 |
| „ IX .... | 20 | 394 | 172 |
| „ Y .... .... | 22 | 410 | 171 |
| „ K* .... | 24 | 389 | 162 |
| „ Q .... .... | 49 | 413 | 160 |
| „ Y* .... | 13 | 359 | 153 |
| „ T .... .... | 36 | 365 | 152 |
| „ IP .... | 17 | 394 | 152 |

WILGA R.

| Herd. | No. of Cows. | Milk Average. gals. | Butter-fat Average. lb. |
|---|---|---|---|
| K. Chapman .... | 31 | 503 | 257 |
| J. Thompson .... | 22 | 574 | 227 |
| J. S. Charteris .... | 24 | 489 | 223 |
| Herd B .... .... | 24 | 437 | 203 |
| „ D .... .... | 22 | 456 | 203 |
| „ M .... .... | 26 | 447 | 189 |
| „ Z .... .... | 12 | 477 | 179 |
| „ J .... .... | 21 | 470 | 178 |
| „ W.... .... | 15 | 386 | 176 |
| „ L .... .... | 29 | 416 | 174 |
| „ T .... .... | 20 | 436 | 172 |
| „ Y .... .... | 8 | 460 | 169 |
| „ H.... .... | 19 | 349 | 162 |
| „ E .... .... | 8 | 322 | 157 |
| „ R .... .... | 22 | 329 | 147 |
| „ F .... .... | 29 | 294 | 137 |
| „ N .... .... | 8 | 305 | 136 |
| „ I .... .... | 14 | 294 | 132 |
| „ P .... .... | 22 | 301 | 131 |
| „ O .... .... | 24 | 284 | 120 |
| „ U .... .... | 12 | 200 | 81 |

PEMBERTON P.

| Herd. | No. of Cows. | Milk Average. gals. | Butter-fat Average. lb. |
|---|---|---|---|
| G. H. Barnsby .... | 15 | 558 | 395 |
| D. Della .... | 24 | 805 | 365 |
| L. Decampo .... | 18 | 673 | 261 |
| Herd K.... .... | 10 | 589 | 253 |
| „ G .... .... | 16 | 554 | 249 |
| „ A .... .... | 23 | 518 | 247 |
| „ AD .... | 29 | 544 | 239 |
| „ D .... .... | 21 | 555 | 236 |
| „ AB .... | 16 | 556 | 214 |
| „ AA .... | 17 | 466 | 211 |
| „ Z .... .... | 5 | 465 | 195 |
| „ Y .... .... | 36 | 439 | 195 |
| „ C .... .... | 23 | 413 | 193 |
| „ AC .... | 20 | 415 | 181 |
| „ AE .... | 15 | 476 | 177 |
| „ M.... .... | 24 | 403 | 176 |
| „ U .... .... | 26 | 411 | 163 |
| „ L .... .... | 13 | 353 | 161 |
| „ J .... .... | 11 | 373 | 157 |
| „ AF .... | 76 | 331 | 123 |

MOUNT BARKER S.

| Herd. | No. of Cows. | Milk Average. gals. | Butter-fat Average. lb. |
|---|---|---|---|
| F. R. H. Pugh .... | 57 | 628 | 276 |
| L. F. Frost .... | 25 | 530 | 247 |
| Cluett & Sons .... | 35 | 527 | 230 |
| Herd Y .... .... | 18 | 507 | 223 |
| „ G .... .... | 34 | 518 | 219 |
| „ T* .... | 30 | 471 | 214 |
| „ B .... .... | 43 | 467 | 210 |
| „ H.... .... | 9 | 413 | 209 |
| „ U .... .... | 29 | 521 | 206 |
| „ F .... .... | 40 | 471 | 204 |
| „ W.... .... | 20 | 433 | 201 |
| „ A* .... | 24 | 495 | 196 |
| „ Z .... .... | 35 | 405 | 185 |
| „ P .... .... | 27 | 404 | 178 |
| „ G .... .... | 26 | 415 | 170 |
| „ T .... .... | 38 | 442 | 167 |
| „ A .... .... | 25 | 357 | 164 |
| „ I .... .... | 22 | 329 | 152 |
| „ U* .... | 18 | 337 | 151 |
| „ C* .... | 40 | 297 | 132 |
| „ X.... .... | 16 | 239 | 10 |

* Inverted.

ALBANY T.

| Herd. | No. of Cows. | Milk Average. gals. | Butter-fat Average. lb. |
|---|---|---|---|
| J. J. Joyce .... | 15 | 597 | 292 |
| Farr Bros. .... | 46 | 571 | 287 |
| W. G. McLaren .... | 15 | 573 | 270 |
| Herd A .... .... | 27 | 515 | 264 |
| „ L .... .... | 26 | 581 | 259 |
| „ X .... .... | 12 | 579 | 256 |
| „ W .... | 28 | 611 | 251 |
| „ U .... .... | 15 | 541 | 237 |
| „ K .... .... | 26 | 480 | 234 |
| „ M .... .... | 25 | 481 | 229 |
| „ Z .... .... | 17 | 497 | 228 |
| „ E* .... | 11 | 443 | 226 |
| „ V .... .... | 15 | 492 | 223 |
| „ C .... .... | 26 | 523 | 210 |
| „ P .... .... | 27 | 439 | 201 |
| „ B .... .... | 31 | 387 | 189 |
| „ R .... .... | 26 | 430 | 186 |
| „ H .... .... | 35 | 319 | 152 |
| „ A* .... | 9 | 262 | 123 |
| „ O .... .... | 32 | 263 | 111 |

VASSE-JINDONG V.

| Herd. | No. of Cows. | Milk Average. gals. | Butter-fat Average. lb. |
|---|---|---|---|
| R. P. Reading .... | 42 | 659 | 274 |
| H. P. Avery .... | 32 | 547 | 242 |
| E. C. Davies .... | 26 | 589 | 228 |
| Herd T .... .... | 40 | 467 | 223 |
| „ L .... .... | 26 | 495 | 216 |
| „ I .... .... | 23 | 512 | 214 |
| „ F .... .... | 23 | 464 | 211 |
| „ P .... .... | 37 | 442 | 209 |
| „ B* .... | 22 | 430 | 190 |
| „ J .... .... | 27 | 491 | 188 |
| „ Q .... .... | 42 | 458 | 187 |
| „ W.... .... | 30 | 443 | 187 |
| „ K .... .... | 61 | 361 | 173 |
| „ H .... .... | 33 | 339 | 158 |
| „ U .... .... | 20 | 347 | 152 |
| „ F* .... | 35 | 352 | 143 |
| „ Z .... .... | 19 | 270 | 109 |
| „ V .... .... | 34 | 184 | 83 |

* Inverted.

NANNUP U.

| Herd. | No. of Cows. | Milk Average. gals. | Butter-fat Average. lb. |
|---|---|---|---|
| V. Knapton .... | 53 | 584 | 286 |
| V. Scott .... | 29 | 791 | 265 |
| S. C. Maidment .... | 57 | 651 | 258 |
| Herd I .... .... | 25 | 486 | 240 |
| „ AD .... | 24 | 517 | 235 |
| „ AB .... | 21 | 439 | 234 |
| „ BA .... | 19 | 494 | 232 |
| „ T .... .... | 21 | 444 | 227 |
| „ BN .... | 21 | 538 | 220 |
| „ BG .... | 15 | 491 | 220 |
| „ AF .... | 43 | 528 | 215 |
| „ B .... .... | 33 | 525 | 213 |
| „ BH .... | 52 | 413 | 203 |
| „ V .... .... | 17 | 348 | 197 |
| „ BN .... | 38 | 393 | 193 |
| „ BO .... | 15 | 416 | 190 |
| „ F .... .... | 39 | 476 | 187 |
| „ U .... .... | 16 | 500 | 184 |
| „ AC .... | 25 | 410 | 159 |
| „ BJ .... | 23 | 321 | 155 |
| „ BF .... | 15 | 291 | 131 |

DENMARK W.

| Herd. | No. of Cows. | Milk Average. gals. | Butter-fat Average. lb. |
|---|---|---|---|
| W. Middleton .... | 19 | 746 | 419 |
| G. Pate .... .... | 17 | 675 | 318 |
| H. Redman .... | 18 | 572 | 310 |
| Herd P .... .... | 26 | 602 | 300 |
| „ C .... .... | 12 | 524 | 286 |
| „ E .... .... | 31 | 641 | 286 |
| „ U .... .... | 17 | 516 | 260 |
| „ T .... .... | 5 | 568 | 252 |
| „ I .... .... | 15 | 539 | 248 |
| „ C* .... | 14 | 573 | 246 |
| „ F* .... | 19 | 512 | 245 |
| „ A* .... | 17 | 486 | 240 |
| „ G* .... | 39 | 466 | 233 |
| „ B* .... | 20 | 463 | 230 |
| „ O .... .... | 46 | 541 | 224 |
| „ V .... .... | 28 | 476 | 223 |
| „ K* .... | 20 | 395 | 194 |
| „ Y .... .... | 19 | 381 | 175 |
| „ R .... .... | 20 | 348 | 155 |

* Inverted.

NORTHCLIFFE X.

| Herd. | No. of Cows. | Milk Average. gals. | Butter-fat Average. lb. |
|---|---|---|---|
| C. and W. Heathcote .... .... | 25 | 678 | 337 |
| Sanders & Son | 25 | 658 | 328 |
| O. R. Smith .... | 13 | 613 | 317 |
| Herd R .... .... | 21 | 665 | 301 |
| „ B .... .... | 33 | 550 | 256 |
| „ C .... .... | 24 | 508 | 240 |
| „ A* .... | 20 | 470 | 239 |
| „ H .... | 19 | 576 | 237 |
| „ E .... .... | 24 | 469 | 232 |
| „ W .... .... | 18 | 444 | 225 |
| „ U .... .... | 37 | 459 | 220 |
| „ T .... .... | 21 | 483 | 219 |
| „ F* .... | 16 | 415 | 210 |
| „ N .... .... | 52 | 441 | 195 |
| „ M .... .... | 31 | 388 | 195 |
| „ I .... .... | 26 | 432 | 191 |
| „ Q .... .... | 36 | 378 | 180 |
| „ Z .... .... | 21 | 386 | 180 |
| „ K* .... | 28 | 351 | 178 |
| „ G .... .... | 18 | 357 | 178 |
| „ J .... .... | 12 | 416 | 175 |
| „ P .... .... | 42 | 295 | 134 |

SCOTSDALE Y.

| Herd. | No. of Cows. | Milk Average. gals. | Butter-fat Average. lb. |
|---|---|---|---|
| W. J. Smith .... | 14 | 576 | 411 |
| J. T. Stephens .... | 18 | 563 | 313 |
| J. M. Barry .... | 12 | 365 | 304 |
| Herd C .... .... | 21 | 614 | 292 |
| „ O .... .... | 24 | 622 | 259 |
| „ H .... | 17 | 408 | 240 |
| „ M .... .... | 21 | 481 | 229 |
| „ J* .... | 23 | 516 | 224 |
| „ S .... .... | 16 | 342 | 214 |
| „ R .... .... | 24 | 507 | 211 |
| „ N .... .... | 44 | 897 | 204 |
| „ B .... .... | 18 | 348 | 193 |
| „ Q .... .... | 23 | 441 | 192 |
| „ G* .... | 27 | 496 | 184 |
| „ A .... .... | 7 | 126 | 181 |
| „ J .... .... | 43 | 751 | 175 |
| „ V .... .... | 16 | 262 | 164 |
| „ U .... .... | 13 | 211 | 162 |
| „ G .... .... | 22 | 355 | 161 |
| „ V* .... | 20 | 319 | 160 |
| „ T .... .... | 23 | 332 | 144 |
| „ A* .... | 12 | 124 | 103 |

ARMADALE-NORTH DANDALUP Z.

| Herd. | No. of Cows. | Milk Average. gals. | Butter-fat Average. lb. |
|---|---|---|---|
| A. W Cunningham | 50 | 705 | 288 |
| Bassett Scarfe Bros. .... .... | 102 | 643 | 287 |
| B. Blomfield .... | 31 | 617 | 272 |
| Herd R .... .... | 16 | 725 | 271 |
| „ C .... .... | 12 | 489 | 237 |
| „ L .... .... | 18 | 343 | 215 |
| „ E .... .... | 28 | 465 | 212 |
| „ G .... .... | 49 | 474 | 201 |
| „ N .... .... | 43 | 416 | 197 |
| „ H .... | 56 | 482 | 192 |
| „ D .... .... | 21 | 354 | 169 |
| „ T .... .... | 25 | 403 | 155 |
| „ M .... .... | 58 | 335 | 143 |
| „ O .... .... | 46 | 361 | 141 |
| „ P .... .... | 26 | 326 | 124 |
| „ F .... .... | 18 | 343 | 117 |
| „ K .... .... | 10 | 236 | 87 |

* Inverted.

# FERTILISERS.

The following fertilisers have been registered at the Department of Agriculture under the Fertilisers Act, 1928, for the year commencing 1st November, 1949 :—

| Name of Fertiliser. | No. | Brand. | By Whom Registered. | Nitrogen (N) as | | | | Phosphoric Acid ($P_2O_5$) as | | | | Potash ($K_2O$) as | | Cash Price per ton at Works (W) or on Rails Perth (P). |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Nitrate. | Ammonia. | Blood and Bone. | Bone Dust. | Water Sol. | Citrate Sol. | Acid Sol. | Total. | Sulphate. | Muriate. | |
| A.—MINERAL. | | | | | | | | | | | | | | |
| 1.—NITROGENOUS. | | | | | | | | | | | | | | |
| *(a) Nitrogen as Nitrate.* | | | | | | | | | | | | | | |
| Nitrate of Soda .... .... | 2 | David Gray's | David Gray & Co. Pty., Ltd. | 15·5 | .... | .... | .... | .... | .... | .... | .... | .... | .... | 11d. per 2 lb. bag. |
| Sodium Nitrate .... .... | 11 | Fauldings | F. H. Faulding & Co., Ltd. | 16·0 | .... | .... | .... | .... | .... | .... | .... | .... | .... | £2 6 8 cwt. (P) |
| Nitrate of Soda .... .... | 15 | Champion | R. Dundas Smith & Son .... | 16·0 | .... | .... | .... | .... | .... | .... | .... | .... | .... | £30 0 0 (W) |
| Do. .... .... .... | 35 | Sickle .... | Cuming Smith & Mt. Lyell F.F., Ltd. | 15·5 | .... | .... | .... | .... | .... | .... | .... | .... | .... | |
| Do. .... .... .... | 45 | Mt. Lyell as ML in diamond | do. do. do. | 15·5 | .... | .... | .... | .... | .... | .... | .... | .... | .... | |
| Do. .... .... .... | 60 | C.S.M.L. .... | do. do. do. | 15·5 | .... | .... | .... | .... | .... | .... | .... | .... | .... | |
| *(b) Nitrogen as Ammonia.* | | | | | | | | | | | | | | |
| Sulphate of Ammonia .. . | 6 | David Gray's | David Gray & Co. Pty., Ltd. | .... | 21·0 | .... | .... | .... | .... | .... | .... | .... | .... | 11d. per 2 lb. bag. |
| Do. .... .... .... | 10 | Fauldings | F. H. Faulding & Co., Ltd. | .... | 20·0 | .... | .... | .... | .... | .... | .... | .... | .... | £1 12 8 cwt. (P) |
| Ammonium Nitrate ... ... | 13 | do. | do. do. do. | .... | 30·0 | .. | .. | .. | .. | .. | .... | .... | .... | £6 1 4 cwt. (P) |
| Sulphate of Ammonia . | 63 | I.C.I.A.N.Z. | Cuming Smith & Mt. Lyell F.F., Ltd. | . . | 20·5 | .. | .. | .... | .. | .. | .. | .. | .... | *£23 0 0 (W) |
| Do. .... .... | 72 | Cresco .... | Cresco Fertilisers (W.A.), Ltd. | .... | 20·5 | .... | .... | .... | .... | .... | .... | .... | .... | *£23 0 0 (W) |
| 2.—PHOSPHATIC. | | | | | | | | | | | | | | |
| *(a) Superphosphate.* | | | | | | | | | | | | | | |
| Superphosphate .... | 4 | David Gray's | David Gray & Co. Pty., Ltd. | .... | .... | .. | . | 18·0 | 2·0 | 2·0 | 22·0 | .... | .... | 1s. 3½d. per 7 lb. bag. |
| Do. do. 22% .... | 25 | Sickle .... | Cuming Smith & Mt. Lyell F.F., Ltd. | .... | .... | .... | .. | 18·0 | 2·0 | 2·0 | 22·0 | .... | .... | *£6 14 0 |
| Do. do. .... | 38 | Mt. Lyell as ML in diamond | do. do. do. | .... | .... | .... | .... | 18·0 | 2·0 | 2·0 | 22·0 | .... | .... | *£6 14 0 |
| Do. do. .... | 47 | C.S.M.L. .... | do. do. do. | .... | .... | .... | .... | 18·0 | 2·0 | 2·0 | 22·0 | .... | .... | *£6 14 0 |
| Do. do. .... | 74 | Cresco .... | Cresco Fertiliser Co. .... | .... | .... | .... | .... | 18·0 | 2·0 | 2·0 | 22·0 | .... | .... | *£6 14 0 |
| *(b) Superphosphate and Minors.* | | | | | | | | | | | | | | |
| Superphosphate and Manganese | 31 | Sickle .... | Cuming Smith & Mt. Lyell F.F., Ltd. | .... | .... | .... | .. | 15·0 | 1·75 | 1·75 | 18·5 | .... | Manganese. 3·80 | *£15 3 9 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Do. do. do. | 57 | C.S.M.L. .... | do. do. do. | .... | .... | .... | .... | 15·0 | 1·75 | 1·75 | 18·5 | .... | 3·80 | *15 3 9 | |
| Do. do. do. | 77 | Cresco .... | Cresco Fertilisers (W.A.), Ltd. | .... | .... | .... | .... | 15·0 | 1·75 | 1·75 | 18·50 | .... | 3·80 | 15 3 9 | |
| | | | | | | | | | | | | Copper. | | | |
| Superphosphate and Copper Ore No. 3 | 32 | Sickle .... | Cuming Smith & Mt. Lyell F.F., Ltd. | .. | .... | .... | .... | 16·0 | 1·50 | 1·50 | 19·00 | 1·00 | .... | * 9 1 6 (W) | |
| Do. do. do. | 58 | C.S.M.L. .... | do. do. do. | .... | .... | .... | .... | 16·0 | 1·50 | 1·50 | 19·00 | 1·00 | .... | * 9 1 6 (W) | |
| Do. do. do. | 76 | Cresco .... | Cresco Fertilisers (W.A.), Ltd. | .. | .. | .. | .... | 16·0 | 1·50 | 1·50 | 19·00 | 1·00 | Zinc. | * 9 1 6 (W) | |
| Superphosphate and Zinc No. 2 | 33 | Sickle .... | Cuming Smith & Mt. Lyell F.F., Ltd. | .. | .. | .... | .... | 17·25 | 1·75 | 2·00 | 21·00 | .... | 2·30 | 8 16 8 (W) | |
| Superphosphate and Zinc .... | 55 | C.S.M.L. .. | do. do. do. | .... | .. | .. | .... | 17·00 | 1·75 | 1·75 | 20·50 | .... | 2·50 | * 7 18 1 (W) | |
| Superphosphate and Zinc No. 2 | 61 | do. | do. do. do. | . | . | .. | .... | 17·25 | 1·75 | 2·00 | 21·00 | .... | 2·30 | 8 16 8 (W) | |
| Do. do. do. | 79 | Cresco | Cresco Fertilisers (W.A.), Ltd. | .. | .. | . | Manganese. | 17·00 | 2·00 | 2·00 | 21·00 | .... | 2·40 | 8 16 8 (W) | |
| Superphosphate and Minor Elements | 78 | do. | do. do. do. | .. | .. | .. | 3·0 | 13·00 | 1·50 | 1·50 | 16·00 | 1·00 | 3·00 | 15 7 6 (W) | |
| Superphosphate, Copper and Zinc | 34 | Sickle .... | Cuming Smith & Mt. Lyell F.F., Ltd. | . | .. | .... | .... | 15·25 | 1·75 | 1·75 | 18·75 | 1·05 | 2·40 | | |
| Superphosphate and Copper No. 1 | 56 | C.S.M.L. ... | do. do. do. | .. | .... | .... | .... | 17·0 | 1·75 | 1·75 | 20·50 | 1·25 | .... | *10 12 0 (W) | |
| Superphosphate and Copper Sulphate | 75 | Cresco .... | Cresco Fertilisers (W.A.), Ltd. | .. | .... | .. | .... | 17·00 | 1·75 | 1·75 | 20·50 | 1·25 | .... | 11 3 2 | |
| | | | | | | | | | | | | Potash ($K_2O$) as | | | |
| 3.—POTASSIC. | | | | | | | | | | | | Sul-phate | Muriate | | |
| (*a*) *Potash as Sulphate.* | | | | | | | | | | | | | | | |
| Sulphate of Potash .... .... | 8 | David Gray's | David Gray & Co. Pty., Ltd. | .... | .... | .... | .... | .... | .... | .... | .... | 30·0 | .... | 11½d. per 2 lb. bag. | |
| Do. do. .... .... | 36 | Sickle .... | Cuming Smith & Mt. Lyell F.F., Ltd. | .... | .... | .... | .... | .... | .... | .... | .... | 35·0 | .... | *18 8 5 (W) | |
| Do. do. .... .... | 44 | Mt. Lyell as ML in diamond | do. do. do. | .... | .... | .... | .... | .... | .... | .... | .... | 35·0 | .... | *18 8 5 (W) | |
| Do. do. .... .... | 59 | C.S.M.L. .... | do. do. do. | .... | .... | .... | .... | .... | .... | .... | .... | 35·0 | .... | *18 8 5 (W) | |
| Do. do. .... .. | 73 | Cresco .... | Cresco Fertilisers (W.A.), Ltd. | .... | .... | .... | .. | .... | .... | .... | .... | 35·0 | .... | *18 8 5 (W) | |
| (*b*) *Potash as Muriate.* | | | | | | | | | | | | | | | |
| Muriate of Potash .... .... | 85 | Chandler.... | State (W.A.) Alunite Industry | .... | .. | .... | .... | .... | .... | .... | .... | 30·0 | .... | | |
| Do. do. .... .... | 37 | Sickle .... | Cuming Smith & Mt. Lyell F.F., Ltd. | .... | .... | .. | .... | .. | .... | .... | .... | .... | 59·0 | | |
| Do. do. .... .... | 46 | Mt. Lyell as ML in diamond | do. do. do. | .... | .... | .. | .... | .... | .... | .... | .. | .... | 59·0 | | |
| Do. do. .... .... | 62 | C.S.M.L. .... | do. do. do. | .... | .... | .... | .... | .... | .... | .... | .... | .... | 59·0 | | |
| Do. do. .. .... | 71 | Cresco .... | Cresco Fertilisers (W.A.), Ltd. | .... | .... | .... | .... | .... | .... | .... | .... | .... | 59·0 | | |
| 4.—NITROGEN AND PHOSPHORIC ACID. | | | | | | | | | | | | | | | |
| Potato Manure "C" .. . | 28 | Sickle .... | Cuming Smith & Mt. Lyell F.F., Ltd. | .... | 3·50 | .... | .... | 14·50 | 1·50 | 1·50 | 17·50 | .... | .... | *10 17 9 (W) | |
| Do. do. .... .... | 41 | Mt. Lyell as ML in diamond | do. do. do. | .... | 3·50 | .... | .... | 14·50 | 1·50 | 1·50 | 17·50 | .... | .... | *10 17 9 (W) | |

FERTILISERS—*continued.*

| Name of Fertiliser. | Reg. No. | Brand. | By Whom Registered. | Nitrogen (N) as | | | | Phosphoric Acid ($P_2O_5$) as | | | | Potash ($K_2O$) as | | Cash Price per ton at Works (W) or on Rails Perth. (P) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Nitrate. | Ammonia. | Blood and Bone. | Bone Dust. | Water Sol. | Citrate Sol. | Acid Sol. | Total. | Sulphate. | Muriate. | |
| 4.—NITROGEN AND PHOSPHORIC ACID—*continued.* | | | | | | | | | | | | | | £ s. d. |
| Potato Manure "C" *continued* | 50 | C.S.M.L. .... | Cuming Smith & Mt. Lyell F.F., Ltd. | .... | 3·50 | .... | .... | 14·50 | 1·50 | 1·50 | 17·50 | .... | .... | *10 17 9 (W) |
| Lawn Manure .... .... .... | 21 | Dawn .... | Dawn Nurseries .... .... | .... | 8·54 | .... | .... | 9·23 | 1·36 | 0·82 | 11·4 | .... | .... | |
| Potato Manure "C" .... | 82 | Cresco .... | Cresco Fertiliser Co. .... | .... | 3·50 | .... | .... | 14·50 | 1·50 | 1·50 | 17·50 | .... | .... | *10 17 9 (W) |
| 5.—NITROGEN PHOSPHORIC ACID AND POTASH. | | | | | | | | | | | | | | |
| Potato Manure "A" .... | 26 | Sickle .... | Cuming Smith & Mt. Lyell F.F., Ltd. | .... | 2·50 | .... | .... | 12·00 | 1·25 | 1·25 | 14·50 | 5·00 | .... | *11 19 10 (W) |
| Potato Manure "B" .... | 27 | do. | do. do. do. | .... | 3·50 | .... | .... | 11·0 | 1·25 | 1·25 | 13·50 | 5·00 | .... | *12 17 6 (W) |
| Potato Manure "E" .... | 29 | do. | do. do. do. | .... | 3·50 | .... | .... | 8·50 | 1·0 | 1·0 | 10·50 | 8·00 | .... | *14 1 4 (W) |
| Potato Manure "A" .... | 39 | Mt. Lyell as ML in diamond | do. do. do. | .... | 2·50 | .... | .... | 12·00 | 1·25 | 1·25 | 14·50 | 5·0 | .... | *11 19 10 (W) |
| Potato Manure "B" .... | 40 | do. | do. do. do. | .... | 3·50 | .... | .... | 11·0 | 1·25 | 1·25 | 13·50 | 5·00 | .... | *12 17 6 (W) |
| Potato Manure "E" .... | 42 | do. | do. do. do. | .... | 3·50 | .... | .... | 8·50 | 1·0 | 1·0 | 10·50 | 8·00 | .... | *14 1 4 (W) |
| Potato Manure "A" .... | 48 | C.S.M.L. .... | do. do. do. | .... | 2·50 | .... | .... | 12·0 | 1·25 | 1·25 | 14·50 | 5·00 | .... | *11 19 10 (W) |
| Potato Manure "B" .... | 49 | do. | do. do. do. | .... | 3·50 | .... | .... | 11·0 | 1·25 | 1·25 | 13·50 | 5·0 | .... | *12 17 6 (W) |
| Potato Manure "E" .... | 51 | do. | do. do. do. | .... | 3·50 | .... | .... | 8·50 | 1·0 | 1·0 | 10·5 | 8·00 | .... | *14 1 4 (W) |
| Potato Manure "A" .... | 80 | Cresco .... | Cresco Fertiliser Co. .... | .... | 2·50 | .... | .... | 12·00 | 1·25 | 1·25 | 14·50 | 5·00 | .... | *11 19 10 (W) |
| Potato Manure "B" .... | 81 | do. | do. do. do. | .... | 3·50 | .... | .... | 11·0 | 1·25 | 1·25 | 13·50 | 5·00 | .... | *12 17 6 (W) |
| Potato Manure "E" .... | 83 | do. | do. do. do. | .... | 3·50 | .... | .... | 8·50 | 1·0 | 1·0 | 10·5 | 8·00 | .... | *14 1 4 (W) |
| Potato Manure "A" .... | 3 | David Gray's | David Gray & Co. Pty., Ltd. | .... | 2·50 | .... | .... | 12·00 | 1·25 | 1·25 | 14·50 | 5·00 | .... | 1s. 8d. per 7 lb. bag. |
| Orchard Manure .... .... | 30 | Sickle .... | Cuming Smith & Mt. Lyell F.F., Ltd. | .... | 3·50 | .... | .... | 11·0 | 1·25 | 1·25 | 13·50 | 5·00 | .... | *12 17 6 (W) |
| Do. do. .... .... | 43 | Mt. Lyell as ML in diamond | do. do. do. | .... | 3·50 | .... | .... | 11·0 | 1·25 | 1·25 | 13·50 | 5·00 | .... | *12 17 6 (W) |
| Do. do. .... .... | 52 | C.S.M.L. .... | do. do. do. | .... | 3·50 | .... | .... | 11·0 | 1·25 | 1·25 | 13·50 | 5·00 | .... | *12 17 6 (W) |
| Do. do. .... .... | 84 | Cresco .... | Cresco Fertiliser Co. .... | .... | 3·50 | .... | .... | 11·0 | 1·25 | 1·25 | 13·50 | 5·00 | .... | *12 17 6 (W) |
| Tomato Manure .... .... | 53 | C.S.M.L. .... | Cuming Smith & Mt. Lyell F.F., Ltd. | .... | 3·50 | .... | .... | 6·00 | 0·75 | 0·75 | 7·50 | 12·00 | .... | *15 13 3 (W) |
| Tobacco Fertiliser .... .... | 54 | do. | do. do. do. | .... | 3·30 | .... | .... | 10·0 | 1·25 | 1·25 | 12·50 | 5·70 | .... | *13 15 3 (W) |
| Rose Manure .... .... .... | 22 | Dawn .... | Dawn Nurseries .... .... | .... | 5·90 | .... | .... | 10·3 | 1·52 | 0·91 | 12·7 | 1·64 | .... | |
| Bulb and Corn Manure .... | 23 | do. | do. .... .... | .... | 1·9 | .... | .... | 9·2 | 1·4 | 0·8 | 11·4 | 9·0 | .... | |
| Seedling Manure .... .... | 24 | do. | do. .... .... | .... | 5·3 | .... | .... | 8·75 | 1·25 | 1·0 | 11·0 | 4·4 | .... | |
| 6.—MISCELLANEOUS. | | | | | | | | | | | | | | |
| Lquid Manure .... .... .... | 1 | David Gray's | David Gray & Co. Pty., Ltd. | .... | 9·0 | .... | .... | 6·0 | .... | .... | 6·0 | 4·0 | .... | 3s. per 20 oz. bottle. |
| Rose Manure .... .... .... | 5 | do. | do. do. do. | .... | 5·6 | .... | .... | 3·89 | .... | 1·94 | 5·93 | 3·2 | .... | 3s. 3d. per 7 lb. bag. |
| Powdered Fertiliser .... .... | 7 | do. | do. do. do. | .... | 5·6 | .... | .... | 3·89 | .... | 1·94 | 5·93 | 3·2 | .... | 3s. per 7 lb. bag. |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Liquid Manure | 12 | Faulding's | F. H. Faulding & Co. | .... | 7·50 | .... | .... | 5·0 | .... | .... | 5·0 | 3·50 | .... | 15s. per gallon. |
| Lquid Fertiliser | 16 | 10-10-5 | Wigmores, Ltd. | .... | 10·0 | .... | .... | 10·0 | .... | .... | 10·0 | 5·0 | .... | 1s. per box retail. |
| Fertiliser Tablets | 66 | Summit | L. M. McLeod | .... | 4·1 | .... | .... | 7·0 | 1·2 | 0·1 | 8·3 | 12·2 | .... | |
| Plant Food | 20 | Dawn | Dawn Nurseries | .... | 5·23 | .... | .... | 11·21 | 1·41 | 1·46 | 14·08 | .... | .... | |
| Hypon No. 2 | 67 | Hypon | Hydroponics Pty., Ltd. | .... | 4·0 | .... | .... | 5·0 | .... | .... | 5·0 | 4·0 | .... | 3s. per 20 oz. bottle. |
| Hypon No. 4 | 68 | do. | do. do. do. | .... | 3·00 | .... | .... | 6·0 | .... | .... | 6·0 | 7·0 | .... | 3s. per 20 oz. bottle. |
| Hypon No. 6 | 69 | do. | do. do. do. | .... | 5·00 | .... | .... | 4·00 | .... | .... | 4·00 | 3·0 | .... | 3s. per 20 oz. bottle. |
| B.—ORGANIC. | | | | | | | | | | | | | | |
| (*a*) *Blood and Bone.* | | | | | | | | | | | | | | |
| Animal Fertiliser | 9 | A and A Surprise | C. A. Kirkby & Sons | .. | .. | 5·50 | .. | .. | 4·0 | 10·0 | 14·0 | .... | .... | 18 10 0 (P) |
| Blood and Bone | 14 | Wyndham | Wyndham Freezing and Meat Works | .... | .... | 6·0 | .... | .... | 6·5 | 9·0 | 15·5 | .... | .... | 16 3 6 (P) |
| Animal Fertiliser | 17 | Blue Cross | Agricultural Products Co. | .... | .... | 3·0 | .... | .... | .... | .... | 15·0 | .... | .... | |
| Animal Fertiliser | 64 | State Abattoirs, Midland Junction | State Abattoirs | .... | .... | 8·0 | .... | .... | .... | .... | 5·0 | .... | .... | 13 0 0 (W) |
| Animal Fertiliser | 65 | State Abattoirs, Kalgoorlie | do. .... .... | .... | .... | 8·0 | .... | .... | .... | .... | 5·0 | .... | .... | 16 0 0 (W) |
| Blood and Bone | 70 | Kitchens | J. Kitchen & Sons Pty., Ltd. | .... | .... | 7·0 | .... | .... | 9·0 | 5·0 | 14·0 | .... | .... | |
| Do. | 87 | TB & S in diamond | Thos. Borthwick & Sons | .... | .... | 5·75 | .... | .... | 6·75 | 5·25 | 12·0 | .... | .... | 14 0 0 (W) |
| Animal Fertiliser | 88 | Wooltana | Wooltana Industries, Ltd. | .... | .... | 4·0 | .... | .... | .... | 10·0 | 10·0 | .... | .... | |
| Bonex Fertiliser | 89 | do. | do. do. do. | .... | .... | 2·5 | .... | .... | .... | 10·0 | 10·0 | .... | .... | |
| B.B. Fertiliser | 90 | do. | do. do. do. | .... | .... | 4·0 | .... | .... | .... | 10·0 | 10·0 | .... | .... | |
| (*b*) *Bone Dust.* | | | | | | | | | | | | | | |
| (*c*) *Fish Fertiliser.* | | | | | | | | | | | | | | |
| Fish Fertiliser | 18 | Cormo | Nor-West Fertiliser | .... | .... | 5·0 | .... | .... | .... | .... | 8·0 | .... | .... | |
| (*d*) *Miscellaneous.* | | | | | | | | | | | | | | |
| Garden Fertiliser | 19 | Sprout-em | Kag Manufacturing Co. | .... | .... | .... | .... | 2·75 | .... | 5·0 | 4·0 | 9·0 | .... | .. |
| Fertiliser | 86 | APEX (C & R) | W.A. Produce Co. | .... | .... | 5·0 | .. | .... | .. | .... | .... | 9·0 | .... | .. 16 0 0 (P) |
| Superhumus No. 1 | 91 | Superhumus | W. E. Sheffield | .... | .... | 2·0 | .... | .... | 1·8 | 0·5 | 0·2 | 2·5 | 2·0 | .... 13s. 3d. per doz. (4 lb.) wholesale. |
| Superhumus, No. 2 | 92 | do. | do. .... .... | .... | .... | 4·0 | .... | .... | 3·0 | 0·5 | 6·5 | 10·0 | 0·5 | .... 13s. 3d. per doz. (4 lb.) wholesale. |
| Fertiliser | 93 | Growmore F/12 | C. J. Turle | .... | .... | 2·2 | .... | .... | 0·223 | 1·8 | .... | 11·4 | 2·75 | .... 3s. 2d. per 7 lb. bag. |

(W) At Works. (P) At Perth. * Net Cash at Works after deducting Commonwealth Superphosphate Subsidy. † F.O.B. Melbourne.

# PULLORUM TESTED FLOCKS

The following is a list of flocks which have been regularly tested under the Voluntary Pullorum Disease Control Scheme conducted by this Department and which have complied with the requirements set out therein.

The breeds included in these tests are indicated as follows; A. O. Australorps, W.L. White Leghorns, R.I.R. Rhode Island Reds.

| Name. | Address. | Number of Birds. | Breed. | Percentage Reaction at last Test. |
|---|---|---|---|---|
| Anthony, P. .... | Kenwick .... | 796 | W.L. .... .... .... | 0.2 |
| Carter, S. F. .... | Osborne Park | 2135 | W.L., AO .... .... .... | 3.3 |
| Collingwood, W. P. .... & C. A. | Collie Burn .... | 2100 | A.O. .... .... .... | 0.0 |
| Dempster, F. .... | Wanneroo .... | 667 | W.L., A.O. .... .... | 0.7 |
| Duncan, J. .... .... | Belmont .... | 1893 | W.L. and A.O. .... .... | 3.5 |
| Fischer, P. .... .... | Darlington .... | 1023 | A.O. .... .... .... | 3.8 |
| Hampton, A. .... | Belmont .... | 1062 | A.O., R.I.R., W.L. .... | 1.3 |
| Kendall, L. J. .... | Guildford .... | 225 | A.O. and W.L. .... .... | 2.2 |
| Lea, E. F. .... .... | Tuart Hill .... | 913 | A.O. and W.L. .... .... | 2.7 |
| Leonard, E. M. .... | Mt. Helena .... | 2090 | A.O. and W.L. .... .... | 3.6 |
| Martin, V. .... .... | Gosnells .... | 1904 | W.L., A.O., R.I.R. .... | 1.5 |
| Purves, N. .... .... | Armadale .... | 1826 | R.I.R., W.L., A.O. .... | 3.4 |
| Sexton, F. P. .... | Wanneroo .... | 1572 | A.O. .... .... .... | 0.9 |
| Skelton, T. R. .... | Swan View .... | 643 | A.O., R.I.R., W.L. .... | 1.1 |
| Smith, J. .... .... | Darlington .... | 1208 | A.O. and W.L. .... .... | 3.1 |
| Smith, J. E. .... | Tuart Hill .... | 2035 | A.O., R.I.R., W.L. .... | 2.6 |
| Stocker, M. .... | Roleystone .... | 839 | W.L. .... .... .... | 1.0 |
| Vickers, F. B. .... | Bayswater .... | 930 | W.L. .... .... .... | 0.6 |
| White, W. .... .... | Kelmscott .... | 1162 | W.L. .... .... .... | 2.9 |
| Whitfield, F. T. .... | Kellerberrin .... | 1588 | A.O. and W.L. .... .... | 0.0 |

# MURESK EGG LAYING TRIAL No. 19

## GENERAL REVIEW.

K. M. COWIN, M.D.A.

Poultry Instructor—Muresk Agricultural College.

The nineteenth test of the Muresk Egg Laying Trials terminated on March 2, 1949—a period of 336 days.

This trial compared very favourably with previous trials in regard to eggs produced. False moulting was prevalent in the White Leghorns during the early part of the trial, probably due to change of environment and confinement in small pens. The Heavy and Medium-Heavy Breeds were not affected to any great degree.

Health of birds was good throughout the trial.

*Weather conditions.*—A comparatively dry winter period was followed by hot dry summer conditions which did not contribute towards high egg production.

The following table shows rainfall recorded, number of days with minimum temperature of 35°F and under, and maximum temperature of 95° and over at Muresk during the period of the trial—

| Month. | Points. | No. of Wet Days. | No. of Days min. 35° and under. | No. of Days max. 95° and over. | Hottest Day of Month. |
|---|---|---|---|---|---|
| | | | | | Degrees. |
| 1948— | | | | | |
| April .... .... | 107 | 8 | .... | .... | 89.6 |
| May .... .... .... | 3 | 2 | 2 | .... | 92.0 |
| June .... .... | 358 | 14 | 13 | .... | 74.4 |
| July .... .... .... | 407 | 17 | 4 | .... | 69.5 |
| August .... .... | 322 | 17 | 2 | .... | 80.2 |
| September .... .... | 244 | 13 | 2 | .... | 82.0 |
| October .... .... | 45 | 6 | 2 | 1 | 95.4 |
| November .... .... | 147 | 4 | .... | 2 | 100.0 |
| December .... .... | 66 | 2 | .... | 3 | 102.8 |
| 1949— | | | | | |
| January .... .... | 3 | 1 | .... | 10 | 107.8 |
| February .... .... | 80 | 3 | .... | 5 | 104.2 |
| March (2 days) .... | .... | .... | .... | .... | 85.4 |
| | 1,782 | 87 | 25 | 21 | .... |

SUMMARY OF RESULTS FOR LAST THREE TRIALS.

Analyses of Breed results are shown hereunder.

WHITE LEGHORN.

| Year. | Number of Birds. | Per centage Total Entries. | Number of Deaths. | Per centage deaths in Section. | Number birds completed Test. | Production 1st Grade Eggs. | | Production 2nd Grade Eggs. | | Total Egg Production. | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Number. | Average per bird. | Number. | Average per bird. | Number. | Average per bird. |
| 1946–47 | 216 | 51·43 | 11 | 5·09 | 205 | 34,222 | 158·42 | 3,241 | 15·00 | 37,463 | 173·42 |
| 1947–48 | 180 | 51·72 | 11 | 6·11 | 169 | 27,265 | 151·47 | 2,691 | 14·95 | 29,956 | 166·38 |
| 1948–49 | 144 | 39·34 | 10 | 6·94 | 134 | 22,749 | 157·97 | 3,023 | 20·99 | 25,772 | 178·97 |

AUSTRALORP.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1946–47 | 162 | 38·57 | 9 | 5·55 | 153 | 28,548 | 176·22 | 3,105 | 19·16 | 31,653 | 195·38 |
| 1947–48 | 144 | 41·38 | 10 | 6·94 | 134 | 27,522 | 191·12 | 1,380 | 9·58 | 28,902 | 200·71 |
| 1948–49 | 174 | 47·54 | 15 | 8·62 | 159 | 30,348 | 174·41 | 4,043 | 23·23 | 34,391 | 197·64 |

CHINESE LANGSHAN.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1946–47 | 12 | 2·86 | .... | .... | 12 | 2,007 | 167·25 | 201 | 16·75 | 2,208 | 184·00 |
| 1947–48 | 12 | 3·45 | .... | .... | 12 | 2,010 | 177·50 | 250 | 20·83 | 2,260 | 188·33 |
| 1948–49 | 30 | 8·19 | 1 | 3·33 | 29 | 4,555 | 151·83 | 646 | 21·53 | 5,201 | 173·36 |

RHODE ISLAND RED.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1946–47 | 30 | 7·14 | 2 | 6·66 | 28 | 3,584 | 119·46 | 605 | 20·16 | 4,189 | 139·63 |
| 1947–48 | 12 | 3·45 | .... | .... | 12 | 1,533 | 127·75 | 581 | 48·42 | 2,114 | 176·16 |
| 1948–49 | 18 | 4·91 | 1 | 5·55 | 17 | 2,515 | 139·72 | 563 | 31·83 | 3,078 | 171·55 |

*Grading of Eggs.*

All eggs were weighed in accordance with Regulation 2 which states—

*First Grade.*—During the first two months of the trial a first grade egg shall weigh not less than 1¾ ozs., thereafter during the remainder of the trial a first grade egg shall weigh not less than 2 ozs.

*Second Grade*—The minimum weight of a second grade egg shall weigh not more than ¼ oz. less than a first grade. Second grade eggs will be recorded but not counted. The following table shows average production for the last three years.

| Breed. | 1946–47. | 1947–48. | 1948–49. |
|---|---|---|---|
| White Leghorn .... .... .... .... .... | 173.42 | 166.38 | 178.97 |
| Australorp .... .... .... .... .... | 195.38 | 200.71 | 197.64 |
| Chinese Langshan .... .... .... .... | 184.00 | 188.33 | 173.36 |
| Rhode Island Red .... .... .... .... | 139.63 | 176.16 | 171.55 |
| All Breeds .... .... .... .... .... | 173.10 | 181.70 | 180.38 |

GROUPS OF EGG PRODUCTION IN LAST THREE TRIALS—ALL EGGS COUNTED.

| Year. | Producing 100 eggs and under. | | 101–150. | | 151–200. | | 201–250. | | 251 and over. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | No. of Birds. | % | No. of Birds. | % | No. of Birds. | % | No. of Birds. | % | No. of Birds. | % |
| 1946–47 .... | 25 | 5.95 | 51 | 12.14 | 186 | 44.28 | 142 | 33.80 | 16 | 3.80 |
| 1947–48 .... | 27 | 7.76 | 35 | 10.05 | 144 | 41.38 | 120 | 34.48 | 22 | 6.32 |
| 1948–49 .... | 24 | 6.55 | 42 | 11.47 | 137 | 37.43 | 136 | 37.15 | 27 | 7.37 |

The following tables show the various groups of egg production for each Breed for the last three Trials—All eggs counted.

1946–47.

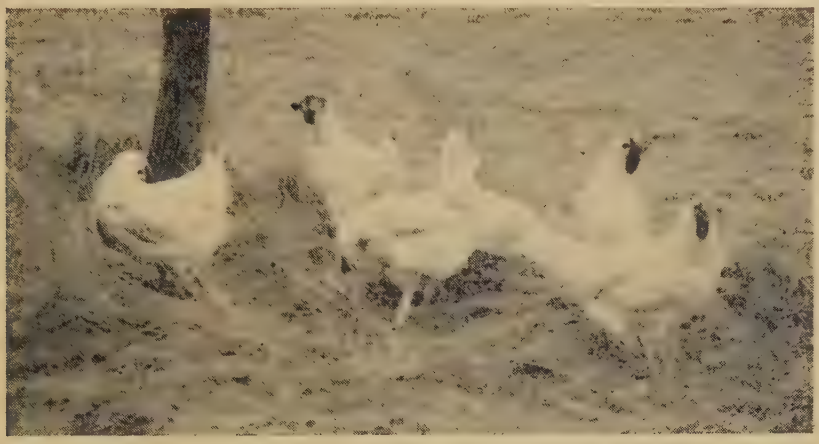
| Breed. | No. of Birds. | 100 and under. | | 101–150. | | 151–200. | | 201–250. | | 251 and over. | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | No. of Birds. | % | No. of Birds. | % | No. of Birds. | % | No. of Birds. | % | No. of Birds. | % |
| White Leghorn .... | 216 | 11 | 5.09 | 24 | 11.11 | 122 | 56.48 | 58 | 26.85 | 1 | .46 |
| Australorp .... .... | 162 | 10 | 6.17 | 13 | 8.02 | 46 | 28.39 | 78 | 48.14 | 15 | 9.25 |
| Chinese Langshan .... | 12 | .... | .... | 1 | 8.33 | 8 | 66.66 | 3 | 25.00 | .. | .... |
| Rhode Island Red .... | 30 | 4 | 13.33 | 13 | 43.33 | 10 | 33.33 | 3 | 10.00 | .. | .... |

1947–48.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| White Leghorn .... | 180 | 20 | 11.11 | 24 | 13.33 | 88 | 48.88 | 43 | 23.88 | 5 | 2.77 |
| Australorp .... .... | 144 | 6 | 4.16 | 8 | 5.55 | 49 | 34.02 | 64 | 44.44 | 17 | 11.80 |
| Chinese Langshan .... | 12 | .... | .... | 1 | 8.33 | 5 | 41.66 | 6 | 50.00 | .... | .... |
| Rhode Island Red .... | 12 | 1 | 8.33 | 2 | 16.66 | 2 | 16.66 | 7 | 58.33 | .... | .... |

1948–49.

| Breed. | No. of Birds. | 100 and under. | | 101–150. | | 151–200. | | 201–250. | | 251 and over. | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | No. of Birds. | % | No. of Birds. | % | No. of Birds. | % | No. of Birds. | % | No. of Birds. | % |
| White Leghorn .... | 144 | 11 | 7.63 | 18 | 12.50 | 63 | 43.07 | 51 | 35.41 | 1 | .69 |
| Australorp .... .... | 174 | 10 | 5.74 | 15 | 8.62 | 52 | 29.88 | 74 | 42.52 | 23 | 13.21 |
| Chinese Langshan .... | 30 | 2 | 6.66 | 6 | 20.00 | 13 | 43.33 | 7 | 23.33 | 2 | 6.66 |
| Rhode Island Red .... | 18 | 1 | 5.55 | 3 | 16.66 | 9 | 50.00 | 4 | 22.22 | 1 | 5.55 |



J. E. Smith's team White Leghorns, 139-144; 1,137 1st Grade Eggs, 36 2nd Grade. Winners Section A, 1948-49. Winners Summer Test, Section A, 1948-49. Winners Type Judging Section A, 1948-49.

Mrs. F. T. Whitfield's Team Australorps, 67-72; 1,354 1st Grade eggs, 12 2nd Grade. Winners Section B, 1948-49. Winners Summer Test, Section B, 1948-49.

## *WINTER TEST.*

The first four months of the trial—1st April to 31st July is known as the Winter test.

The following particulars show the winners for the last three trials, and number of eggs laid.

Section " A."—White Leghorn.

| | 1946–47. | No. | 1947–48. | No. | 1948–49. | No. |
|---|---|---|---|---|---|---|
| 1st | Mrs. McFadden .... | 382 | Max Stocker .... .... | 381 | W. R. Webb .... | 350 |
| 2nd | G. A. Johnson .... | 375 | L. C. Cant .... .... | 369 | W. R. Webb .... | 334 |
| 3rd | C. F. Schwarz .... | 357 | E. E. Price .... .... | 340 | M. Love .... .... | 333 |

Section " B."—Australorps.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1st | V. J. Dadley .... | 534 | Miss J. M. Dadley .... | 505 | J. E. Smith .... .... | 532 |
| 2nd | C. Mitchell .... .... | 490 | V. J. Dadley .... | 484 | J. E. Smith .... .... | 498 |
| 3rd | Miss J. M. Dadley .... | 471 | F. T. Whitfield .... | 484 | Mrs. M. H. Dadley .... | 482 |

Section ' C."—Rhode Island Reds and Chinese Lanzshan.

| | 1946–47. | No. | 1947–48. | No. | 1948–49. | No. |
|---|---|---|---|---|---|---|
| 1st | A. Machlin .... .... | 311 | T. Parker (C.L.) .... | 478 | T. Parker (C.L.) .... | 388 |
| 2nd | W. L. Hoops.... .... | 268 | Mrs. F. G. Revill (R.I.R.) | 287 | A. Hampton (C.L.) .... | 293 |

M. Love's White Leghorn, No. 9. Highest individual score in Section A, 235 1st Grade eggs with a total weight of eggs laid 500.1 ozs.

R. C. Comb's White Leghorn, No. 42. Second highest individual score in Section A, 235 1st Grade eggs with a total weight of eggs laid 485.2 ozs.

*SUMMER TEST.*

The period 1st December to the termination of the trial is known as the Summer Test.

The following particulars show the winners and number of eggs laid.

| Section. | 1946–47. | No. | 1947–48. | No. | 1948–49. | No. |
|---|---|---|---|---|---|---|
| A | E. E. Price .... .... | 347 | E. E. Price .... .... | 341 | J. E. Smith .... .... | 361 |
| B | C. Mitchell .... .... | 311 | M. H. Dadley .... | 357 | Mrs. T. F. Whitfield | 334 |
| C | G. E. Price (R.I.R.) | 256 | T. Parker (C.L.) .... | 228 | J. E. Smith (R.I.R.) .... | 2 7 |

A. Hampton's Australorp, No. 84. Highest individual in Section B, 271 1st Grade eggs.

*Government Standard Certificate.*

Standard certificates and sealed copper bands are awarded to birds that lay 200 1st grade eggs or over during the period covered by the trial.

Table below shows number and percentage of certificate winners for the last three trials—

| Trial. | No. of Birds in Trial. | No. of Birds Qualified. | Percentage. |
|---|---|---|---|
| 1946–47 .... .... .... | 420 | 108 | 25.71 |
| 1947–48 .... .... .... | 348 | 111 | 31.60 |
| 1948–49 .... .... .... | 366 | 102 | 27.86 |

The following is a list of complete scores for all entries in 1948/49 trial. Birds which qualified for Standard Certificates are marked with an asterisk.

Mrs. A. H. Dadley's Australorp, No. 150. Second highest individual in Section B, 268 1st Grade Eggs.

J. E. Smith's Rhode Island Red, No. 47. Highest individual in Section C, 261 1st Grade eggs.

## Section "A" Light Breed—White Leghorn.

| Competitor. | Bird No. | Score. | | Team Total. | | Competitor. | Bird No. | Score. | | Team Total. | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1st | 2nd | 1st | 2nd | | | 1st | 2nd | 1st | 2nd |
| M. Love, North Lake Rd., Melville | 1 | 184 | 2 | | | C. Rodgers, Yarraville P.F., Armadale | 73 | 148 | 5 | | |
| | 2 | †111 | 24 | | | | 74 | 152 | .... | | |
| | 3 | 112 | 30 | | | | 75 | 126 | 99 | | |
| | 4 | 196 | 2 | | | | 76 | 133 | 17 | | |
| | 5 | 170 | 11 | | | | 77 | †88 | .... | | |
| | 6 | *212 | 1 | 985 | 70 | | 78 | 17 | 2 | 714 | 123 |
| M. Love, North Lake Rd., Melville | 7 | *228 | 3 | | | C. Rodgers, Yarraville P.F., Armadale | 79 | 196 | 36 | | |
| | 8 | *224 | .... | | | | 80 | *218 | 7 | | |
| | 9 | *235 | 1 | | | | 81 | 197 | 1 | | |
| | 10 | 107 | .... | | | | 82 | 148 | 96 | | |
| | 11 | 173 | 6 | | | | 83 | 156 | 10 | | |
| | 12 | 88 | 15 | 1,055 | 25 | | 84 | †81 | .... | 996 | 150 |
| T. H. Gray, Norma Rd., Melville | 13 | *213 | 1 | | | I. Schwarz, Harold St., Gosnells | 85 | 164 | 15 | | |
| | 14 | 173 | 66 | | | | 86 | 149 | 22 | | |
| | 15 | 174 | 18 | | | | 87 | 161 | 30 | | |
| | 16 | *213 | 2 | | | | 88 | 191 | 28 | | |
| | 17 | 96 | 164 | | | | 89 | *212 | 9 | | |
| | 18 | *233 | 7 | 1,102 | 258 | | 90 | *202 | 1 | 1,079 | 105 |
| G. A. Johnson, Spencer Rd., Cannington | 19 | *210 | 2 | | | W. R. Webb, Wanneroo Rd., Tuart Hill | 91 | 147 | 1 | | |
| | 20 | *200 | 6 | | | | 92 | 164 | 20 | | |
| | 21 | *202 | .... | | | | 93 | 142 | 84 | | |
| | 22 | 130 | 67 | | | | 94 | 195 | 9 | | |
| | 23 | 143 | 4 | | | | 95 | 171 | 14 | | |
| | 24 | 75 | 33 | 960 | 112 | | 96 | 155 | 11 | 974 | 139 |
| J. Duncan, East Belmont Post Office | 31 | 161 | 17 | | | W. R. webb, Wanneroo Rd., Tuart Hill | 97 | *210 | 6 | | |
| | 32 | 140 | 68 | | | | 98 | *203 | 10 | | |
| | 33 | 190 | 7 | | | | 99 | 74 | 82 | | |
| | 34 | 159 | 18 | | | | 100 | 148 | 11 | | |
| | 35 | 185 | 5 | | | | 101 | 199 | 20 | | |
| | 36 | 80 | 23 | 915 | 138 | | 102 | 168 | 55 | 1,002 | 184 |
| R. C. Combs, North Lake Rd., Melville | 37 | 128 | 1 | | | W. S. Johns, Naval Oil Fuel Installation, Fremantle | 109 | 179 | 1 | | |
| | 38 | 156 | 27 | | | | 110 | 172 | 6 | | |
| | 39 | *222 | 1 | | | | 111 | 149 | 3 | | |
| | 40 | 194 | .... | | | | 112 | *200 | .... | | |
| | 41 | 150 | .... | | | | 113 | 141 | 64 | | |
| | 42 | *235 | 11 | 1,085 | 40 | | 114 | 119 | 6 | 960 | 80 |
| A. Hampton, Scott St., Belmont | 43 | 173 | 36 | | | W. S. Johns, Naval Oil Fuel Installation, Fremantle | 115 | 183 | 34 | | |
| | 44 | 163 | .... | | | | 116 | 192 | .... | | |
| | 45 | 196 | 10 | | | | 117 | 104 | 71 | | |
| | 46 | 66 | 139 | | | | 118 | 199 | 3 | | |
| | 47 | †24 | 34 | | | | 119 | 185 | 1 | | |
| | 48 | †19 | 44 | 641 | 263 | | 120 | 146 | .... | 1,009 | 109 |
| E. E. Price, 279 South St., Fremantle | 49 | 162 | 32 | | | Max Stocker, "Cavvystock," Roleystone | 121 | 159 | 30 | | |
| | 50 | *217 | 10 | | | | 122 | 169 | 39 | | |
| | 51 | *231 | 6 | | | | 123 | 164 | 5 | | |
| | 52 | 178 | 15 | | | | 124 | 198 | 13 | | |
| | 53 | 39 | 99 | | | | 125 | 159 | 44 | | |
| | 54 | 187 | 3 | 1,014 | 165 | | 126 | *215 | 1 | 1,064 | 132 |
| E. E. Price, 279 South St., Fremantle | 55 | 176 | .... | | | Max Stocker, "Cavvystock," Roleystone | 127 | 100 | 121 | | |
| | 56 | 169 | 15 | | | | 128 | 71 | 42 | | |
| | 57 | 152 | 51 | | | | 129 | 127 | 59 | | |
| | 58 | †73 | 1 | | | | 130 | 76 | .... | | |
| | 59 | 164 | 6 | | | | 131 | 176 | 17 | | |
| | 60 | 115 | 24 | 849 | 97 | | 132 | †77 | 26 | 627 | 265 |
| E. E. Price, 279 South St., Fremantle | 61 | †78 | 8 | | | H. D. Mutton, River Road, Kelmscott | 133 | *202 | 8 | | |
| | 62 | 159 | 4 | | | | 134 | 182 | .... | | |
| | 63 | 162 | 5 | | | | 135 | *218 | | | |
| | 64 | 78 | 2 | | | | 136 | 99 | 2 | | |
| | 65 | 121 | 77 | | | | 137 | *234 | 7 | | |
| | 66 | 191 | 5 | 789 | 101 | | 138 | †149 | 15 | 1,084 | 32 |
| Mrs. E. E. Price, 279 South St., Fremantle | 67 | †6 | 36 | | | J. E. Smith, Swan St., Tuart Hill | 139 | *207 | .... | | |
| | 68 | 153 | 11 | | | | 140 | 189 | .... | | |
| | 69 | 168 | .... | | | | 141 | 185 | 1 | | |
| | 70 | 169 | 1 | | | | 142 | 150 | 1 | | |
| | 71 | 143 | 9 | | | | 143 | *203 | 23 | | |
| | 72 | 58 | 62 | 697 | 119 | | 144 | *203 | 11 | 1,137 | 36 |

† Bird died.

Section "A"—*continued.*

| Competitor. | Bird No. | Score. | | Team Total. | | Competitor. | Bird No. | Score. | | Team Total. | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1st | 2nd | 1st | 2nd | | | 1st | 2nd | 1st | 2nd |
| J. E. Smith, Swan St., Tuart Hill | 145 | 187 | 24 | | | G. Dolman, Ilma St., Gosnells | 151 | 190 | 2 | | |
| | 146 | 184 | .... | | | | 152 | 119 | 94 | | |
| | 147 | 190 | .... | | | | 153 | 157 | 40 | | |
| | 148 | 191 | 11 | | | | 154 | 146 | 55 | | |
| | 149 | 58 | 30 | | | | 155 | 197 | .... | | |
| | 150 | 197 | 22 | 1,007 | 87 | | 156 | 195 | 2 | 1,004 | 193 |
| Section "B" Heavy Breeds—Australorps. | | | | | | | | | | | |
| S. Potter, Box 123, Katanning | 1 | 194 | .... | | | F. T. Whitfield, Massingham St., Kellerberrin | 61 | 183 | 1 | | |
| | 2 | *241 | .... | | | | 62 | *223 | 11 | | |
| | 3 | 145 | 1 | | | | 63 | 175 | 1 | | |
| | 4 | *207 | 1 | | | | 64 | 180 | .... | | |
| | 5 | *200 | 1 | | | | 65 | 162 | 33 | | |
| | 6 | 196 | .... | 1,183 | 3 | | 66 | 196 | .... | 1,119 | 46 |
| Mrs. S. Potter, Box 123, Katanning | 7 | 197 | 9 | | | Mrs. F. T. Whitfield, Massingham St., Kellerberrin | 67 | 188 | .... | | |
| | 8 | *215 | 2 | | | | 68 | *258 | .... | | |
| | 9 | 174 | 1 | | | | 69 | 194 | 11 | | |
| | 10 | 169 | .... | | | | 70 | *222 | 1 | | |
| | 11 | 187 | 1 | | | | 71 | *233 | .... | | |
| | 12 | 192 | 8 | 1,134 | 21 | | 72 | *259 | .... | 1,354 | 12 |
| T. Gent, Hector St., Osborne Park | 13 | 138 | 69 | | | A. Hampton, Scott St., Belmont | 73 | 169 | 1 | | |
| | 14 | 176 | .... | | | | 74 | 139 | 51 | | |
| | 15 | *215 | .... | | | | 75 | 143 | 13 | | |
| | 16 | 148 | .... | | | | 76 | 6 | 115 | | |
| | 17 | 117 | 3 | | | | 77 | 177 | 1 | | |
| | 18 | 162 | 37 | 956 | 109 | | 78 | *231 | 1 | 865 | 182 |
| T. H. Gray, Norma Rd., Melville | 19 | 103 | 103 | | | A. Hampton, Scott St., Belmont | 79 | 185 | 40 | | |
| | 20 | 179 | 72 | | | | 80 | *221 | 2 | | |
| | 21 | 154 | 1 | | | | 81 | 197 | 8 | | |
| | 22 | *218 | 14 | | | | 82 | 137 | 1 | | |
| | 23 | 160 | 4 | | | | 83 | *203 | 1 | | |
| | 24 | *219 | .... | 1,033 | 194 | | 84 | *271 | 1 | 1,214 | 53 |
| T. F. Hugall, Kalamunda Rd., Maida Vale | 25 | 171 | 4 | | | W. G. Hall, Post Office, Jandakot | 85 | 172 | 4 | | |
| | 26 | *211 | 28 | | | | 86 | 198 | 5 | | |
| | 27 | 184 | 62 | | | | 87 | 181 | .... | | |
| | 28 | 196 | 7 | | | | 88 | 163 | 6 | | |
| | 29 | 162 | 24 | | | | 89 | *207 | 5 | | |
| | 30 | 166 | 103 | 1,090 | 228 | | 90 | 197 | .... | 1,118 | 20 |
| T. F. Hugall, Kalamunda Rd., Maida Vale | 31 | 184 | .... | | | W. G. Hall, Post Office, Jandakot | 91 | 161 | 29 | | |
| | 32 | 159 | .... | | | | 92 | 174 | .... | | |
| | 33 | *213 | 45 | | | | 93 | *248 | 2 | | |
| | 34 | *242 | 13 | | | | 94 | 114 | 94 | | |
| | 35 | *238 | 1 | | | | 95 | *243 | 3 | | |
| | 36 | 6 | 92 | 1,042 | 151 | | 96 | *208 | 4 | 1,148 | 132 |
| R. C. Combs, North Lake Rd., Melville | 37 | 155 | 110 | | | W. G. Hall, Post Office, Jandakot | 97 | 26 | 172 | | |
| | 38 | 110 | 50 | | | | 98 | 58 | 197 | | |
| | 39 | 166 | 43 | | | | 99 | †134 | 3 | | |
| | 40 | †59 | 8 | | | | 100 | *238 | 4 | | |
| | 41 | 107 | 5 | | | | 101 | *247 | 1 | | |
| | 42 | 155 | 2 | 752 | 218 | | 102 | *233 | .... | 936 | 377 |
| R. C. Combs, North Lake Rd., Melville | 43 | 186 | .... | | | E. E. Price, 279 South St., Fremantle | 103 | †17 | 1 | | |
| | 44 | *222 | 3 | | | | 104 | †33 | 20 | | |
| | 45 | 3 | 193 | | | | 105 | †37 | 2 | | |
| | 46 | *230 | 6 | | | | 106 | 164 | 1 | | |
| | 47 | 171 | 85 | | | | 107 | 126 | 8 | | |
| | 48 | *245 | 9 | 1,057 | 296 | | 108 | †54 | .... | 431 | 32 |
| A. R. Caporn, Edeline Rd., Spearwood | 49 | 125 | 57 | | | E. E. Price, 279 South St., Fremantle | 109 | 198 | 53 | | |
| | 50 | 146 | 8 | | | | 110 | †43 | 10 | | |
| | 51 | 52 | 151 | | | | 111 | †108 | 4 | | |
| | 52 | *234 | 3 | | | | 112 | 160 | .... | | |
| | 53 | 30 | 146 | | | | 113 | †77 | 4 | | |
| | 54 | †130 | 55 | 717 | 420 | | 114 | †41 | 7 | 637 | 78 |
| Mrs. R. McDougall, "Boyning," Wickepin | 55 | 193 | 28 | | | Mrs. E. E. Price, 279 South St., Fremantle | 115 | †130 | 14 | | |
| | 56 | *201 | 9 | | | | 116 | *216 | 23 | | |
| | 57 | 35 | 122 | | | | 117 | 179 | 15 | | |
| | 58 | *208 | 46 | | | | 118 | 59 | 40 | | |
| | 59 | 193 | 44 | | | | 119 | *210 | 3 | | |
| | 60 | 50 | 197 | 880 | 446 | | 120 | †147 | 34 | 941 | 129 |

† Bird died.

Section "B"—*continued.*

| Competitor. | Bird No. | Score. | | Team Total. | | Competitor. | Bird No. | Score. | | Team Total. | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1st | 2nd | 1st | 2nd | | | 1st | 2nd | 1st | 2nd |
| I. Schwarz, Harold St., Gosnells | 121 | *201 | 1 | | | V. J. Dadley, Rockingham Rd., South Coogee | 151 | †118 | 2 | | |
| | 122 | 183 | 69 | | | | 152 | 44 | 113 | | |
| | 123 | 132 | 1 | | | | 153 | *262 | .... | | |
| | 124 | *251 | .... | | | | 154 | *207 | .... | | |
| | 125 | 170 | 100 | | | | 155 | *217 | .... | | |
| | 126 | *246 | 1 | 1,183 | 172 | | 156 | 189 | 3 | 1,037 | 118 |
| M. H. Dadley, Rockingham Rd., South Coogee | 127 | 181 | 2 | | | J. E. Smith, Swan St., Tuart Hill | 157 | *216 | .... | | |
| | 128 | 94 | 1 | | | | 158 | 179 | 3 | | |
| | 129 | *248 | .... | | | | 159 | 172 | 1 | | |
| | 130 | *241 | 3 | | | | 160 | †118 | .... | | |
| | 131 | 187 | 32 | | | | 161 | *225 | 6 | | |
| | 132 | *205 | 2 | 1,156 | 40 | | 162 | *237 | 1 | 1,147 | 11 |
| M. H. Dadley, Rockingham Rd., South Coogee | 133 | *225 | .... | | | J. E. Smith, Swan St., Tuart Hill | 163 | 178 | .... | | |
| | 134 | *251 | 2 | | | | 164 | 158 | 3 | | |
| | 135 | *239 | 17 | | | | 165 | 138 | .... | | |
| | 136 | 144 | .... | | | | 166 | *229 | .... | | |
| | 137 | 167 | 2 | | | | 167 | *247 | .... | | |
| | 138 | *226 | 21 | 1,252 | 42 | | 168 | *239 | 1 | 1,189 | 4 |
| Mrs. M. H. Dadley, Rockingham Rd., South Coogee | 139 | *224 | 55 | | | J. B. Inkpen, 148 Waratah Avenue, Claremont | 169 | 181 | 82 | | |
| | 140 | *221 | .... | | | | 170 | †102 | 142 | | |
| | 141 | 153 | .... | | | | 171 | *245 | 1 | | |
| | 142 | *248 | .... | | | | 172 | *263 | 1 | | |
| | 143 | *240 | .... | | | | 173 | 95 | 174 | | |
| | 144 | *228 | .... | 1,314 | 55 | | 174 | *237 | 1 | 1,123 | 401 |
| Mrs. M. H. Dadley, Rockingham Rd., South Coogee | 145 | 187 | 49 | | | | | | | | |
| | 146 | *240 | .... | | | | | | | | |
| | 147 | *206 | 1 | | | | | | | | |
| | 148 | *212 | .... | | | | | | | | |
| | 149 | *227 | 3 | | | | | | | | |
| | 150 | *268 | .... | 1,340 | 53 | | | | | | |

† Bird died.

Section "C" Medium Heavy Breeds—Chinese Langshans.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Thos. Parker, Hartfield Rd., Forrestfield | 1 | 89 | 88 | | | A. Hampton, Scott St., Belmont | 25 | † | .... | | |
| | 2 | 142 | .... | | | | 26 | 72 | 15 | | |
| | 3 | 98 | 50 | | | | 27 | 128 | 53 | | |
| | 4 | 177 | 2 | | | | 28 | 186 | 63 | | |
| | 5 | *207 | 3 | | | | 29 | 182 | 1 | | |
| | 6 | 140 | 26 | 853 | 169 | | 30 | 146 | .... | 714 | 132 |
| Thos. Parker, Hartfield Rd., Forrestfield | 7 | *236 | 24 | | | A. Hampton, Scott St., Belmont | 31 | 184 | .... | | |
| | 8 | *229 | 6 | | | | 32 | 112 | 104 | | |
| | 9 | 189 | 9 | | | | 33 | 73 | .... | | |
| | 10 | 165 | 1 | | | | 34 | 112 | 74 | | |
| | 11 | 117 | 6 | | | | 35 | 156 | 1 | | |
| | 12 | 141 | 70 | 1,077 | 116 | | 36 | 176 | 34 | 813 | 213 |
| Thos. Parker, Hartfield Rd., Forrestfield | 13 | *202 | 22 | | | J. E. Smith, Swan St., Tuart Hill | 37 | 65 | 107 | | |
| | 14 | 170 | 11 | | | | 38 | 164 | 8 | | |
| | 15 | 180 | 52 | | | | 39 | 148 | 12 | | |
| | 16 | 145 | 30 | | | | 40 | 163 | 41 | | |
| | 17 | 153 | .... | | | | 41 | 86 | 67 | | |
| | 18 | 109 | 48 | 959 | 163 | | 42 | †80 | 24 | 706 | 259 |
| A. Hampton, Scott St., Belmont | 19 | 101 | 16 | | | J. E. Smith, Swan St., Tuart Hill | 43 | 72 | 41 | | |
| | 20 | 145 | 1 | | | | 44 | 137 | 19 | | |
| | 21 | 134 | 24 | | | | 45 | 123 | 6 | | |
| | 22 | *205 | .... | | | | 46 | 170 | 8 | | |
| | 23 | *241 | 25 | | | | 47 | *261 | 8 | | |
| | 24 | 126 | .... | 952 | 66 | | 48 | *233 | 9 | 996 | 91 |

† Bird died.

At a social arranged by the Committee of Management in the Sheel Oil Co.'s Theatrette and Social Rooms, St. George's Terrace, Perth, on 19th May, 1949, the Hon. Minister of Agriculture, Mr. G. B. Wood presented the trophies to the successful competitors in the 1948/49 Trial.

Trophy list showing donors and successful competitors.

## MURESK AGRICULTURAL COLLEGE.

### Egg Laying Trials—1948-1949.

| | Score. 1st Grade. | 2nd Grade. |
|---|---|---|
| *Champion Certificate*: | | |
| David Gray's Trophy. Won by Mrs. F. T. Whitfield—Australorps .. .. .. .. | 1354 | 12 |
| *Teams of Six Birds*:—Section "A" Light Breeds. White Leghorns. | | |
| 1st Prize—Westfarmers Cup and Trophy. Won by J. E. Smith .. .. .. .. | 1137 | 36 |
| 2nd Prize—R. E. Young's Trophy. Won by T. H. Gray .. .. .. .. .. | 1102 | 258 |
| 3rd Prize—C. Rodger's Trophy. Won by R. C. Combs .. .. .. .. | 1085 | 40 |
| *Teams of Six Birds*:—Section "B" Heavy Breeds. Australorps. | | |
| 1st Prize—Scanlon's Trophy and Thomas & Co. Trophy. Won by Mrs. F. T. Whitfield .. .. .. .. .. | 1354 | 12 |
| 2nd Prize—W.A. Egg Marketing Board Trophy. Won by Mrs. M. H. Dadley .. | 1340 | 53 |
| 3rd Prize—Kirkby & Sons' Trophy. Won by Mrs. M. H. Dadley .. .. .. | 1314 | 55 |
| *Teams of Six Birds*:—Section "C" Medium-Heavy Breeds. Rhode Island Reds and Langshans. | | |
| 1st Prize—Dunklings' Cup and Trophy. Won by T. Parker (Langshans) .. .. | 1077 | 116 |
| 2nd Prize—Barrow Linton's Trophy. Won by J. E. Smith (R.I.R.) .. .. .. | 996 | 91 |
| 3rd Prize—York Flour Mill Trophy. Won by T. Parker (Langshans) .. .. | 959 | 163 |
| *Winter Test*:—From April 1st to July 31st | | |
| Section "A" Light Breeds. | | |
| 1st Prize—Haynes & Clements' Trophy. Won by W. R. Webb .. .. .. .. | 350 | 64 |
| Section "B" Heavy Breeds. | | |
| 1st Prize—J. Loris Trophy. Won by J. E. Smith | 532 | 4 |
| Section "C" Medium Heavy Breeds. | | |
| 1st Prize—R. Piercey's Trophy. Won by T. Parker (Langshans) .. .. .. | 388 | 40 |

| | Score. 1st Grade. | 2nd Grade. |
|---|---|---|
| *Summer Test*:—From December 1st, 1948 to March 2nd, 1949. | | |
| Section "A" Light Breeds. | | |
| 1st Prize—Western Ice Cup and Trophy. Won by J. E. Smith (No. 2 team) .. .. | 366 | 21 |
| Section "B" Heavy Breeds. | | |
| 1st Prize—Western Ice Cup and J. E. Smith's Trophy. Won by F. T. Whitfield | 360 | 10 |
| Section "C" Medium Heavy Breeds. | | |
| 1st Prize—Western Ice Cup and M. H. Dadley's Trophy. Won by J. E. Smith (R.I.R.) .. .. .. .. | 247 | 26 |
| *Individual Birds*:—Section "A" Light Breeds. | | |
| 1st Prize—Giles & Ryan's Trophy. Won by M. Love—No. 9 (Total wt. of eggs laid 500.1 oz. .. .. .. .. | 235 | 1 |
| 2nd Prize—Baird's Trophy. Won by R. C. Combs —No. 42 (Total wt. of eggs laid 485.2 oz.) .. .. .. .. | 235 | 11 |
| Section "B" Heavy Breeds. | | |
| 1st Prize—Baird's Cup and Cullin's Trophy. Won by A. Hampton—No. 84 .. .. | 271 | 1 |
| 2nd Prize—Wright's Trophy. Won by Mrs. M. H. Dadley—No. 150 .. .. .. | 268 | — |
| Section "C" Medium Heavy Breeds. | | |
| 1st Prize—Carbarn's Trophy. Won by J. E. Smith (R.I.R.) No. 47 .. .. | 261 | 8 |
| 2nd Prize—J. Goss' Trophy. Won by A. Hampton (Langshan) No. 23 .. .. .. | 241 | 25 |

*First Bird to Lay* 200 *1st Grade Eggs*:

Section "A" Light Breeds.

Multiple Trophy. Won by R. C. Combs, W. L. No. 42 on January 7th, 1949.

Section "B" Heavy Breeds.

A. & M. Bells Trophy.

Won by V. J. Dadley, Australorp No. 153 on November 10th, 1948.

Section "C" Medium Heavy Breeds.

E. Fry's Trophy.

Won by J. E. Smith, R.I.R. No. 47 on December 8th, 1948.

*Teams of Six Birds Judged for Type by Mr. A. R. Wright*:

Section "A" Light Breeds.

1st Prize—N. Richard's Trophy. Won by J. E. Smith, White Leghorns, No. 139-144.

2nd Prize—W. Southern's Trophy. Won by R. C. Combs, White Leghorns, No. 37-42.

Section "B" Heavy Breeds.

1st Prize—Harrold & Murray's Trophy. Won by J. E. Smith, Australorps, No. 157-162.

2nd Prize—J. Banfield's Trophy. Won by Mrs. M. H. Dadley, Australorps, No. 145-150.

Section "C" Medium Heavy Breeds.

1st Prize—Milne's and Boan's Trophy. Won by T. Parker, Chinese Langshans, No. 13-18.

2nd Prize—Malloch's Trophy. Won by T. Parker, Chinese Langshans, No. 1-6.

| | 1st Grade. | 2nd Grade. |
|---|---|---|
| *Team Laying Lowest Percent 2nd Grade Eggs*: | | |
| W.A. Egg Marketing Board's Trophy. Won by S. Potter (Australorps) .. .. .. .. | 1183 | 3 |

*Bird Laying Longest Sequence 1st Grade Eggs*:

E. Fry's Trophy. Won by V. J. Dadley, Australorp, No. 153—59 eggs.

*Co-Op Trophy*:

Section "A" Light Breeds.

Won by J. E. Smith, W.L. 139-144—41 points.

Section "B" Heavy Breeds.

Won by Mrs. F. T. Whitfield, Australorps, 67-72—60½ points.

Section "C" Medium Heavy Breeds.

Won by J. E. Smith, R.I.R. 43-48—45 points.

[*Conditions of Co-op Trophy*—Minimum Lay, 1st Grade Eggs: Section A, 1,100; Section B, 1,200; Section C, 950. At completion of trial each team must be complete, no bird having been replaced during the course of the trial. Teams to be judged on a points system compiled as follows:—

*On Arrival*—Subtract one point for each 4 ozs. or part thereof under prescribed weight.

*At Completion of Trial*—Subtract one point for each 4 ozs. or part thereof under prescribed weight. Subtract half a point for each oz. loss of weight. Add half a point for each oz. gain in weight above prescribed weight.]

*Gordon's Trophy*:

Section "A" Light Breeds.

None qualified.

Section "B" Heavy Breeds.

Won by Mrs. M. H. Dadley, Australorps, Nos. 139-144.

Section "C" Medium Heavy Breeds.

Won by J. E. Smith, R.I.R. Nos. 43-48.

[*Conditions of Gordon's Trophy*—For highest gain in weight. Condition: Must be original team. Minimum Lay—Section A, 1,000; Section B, 1,100; Section C, 850. Must be prescribed weight on arrival. Must maintain weight.]

# ANALYSES OF FEEDING STUFFS.

Results of analyses of samples of Feeding Stuffs taken under the Feeding Stuffs Act, 1928-1948.

(Published under section 9 of the Act.)

| Date Sample taken. | Firm and Brand. | Crude Protein. | Crude Fat. | Crude Fibre. | Sodium Chlor. | Phosphoric Acid $P_2O_5$. | Lime. | Others. | |
|---|---|---|---|---|---|---|---|---|---|
| | *W. Angliss & Co. (Aust.), Ltd.* | % | % | % | % | % | % $CaO$ | % | % |
| | "Imperial" Fortified Protein Meal— | | | | | | | | |
| | Registered Analysis .... | †50·0 | *12·0 | *2·0 | .... | .... | .... | .... | .... |
| 16-2-49 | Sample Analysis .... .... | 49·8 | 14·4 | 3·0 | .... | .... | .... | .... | .... |
| | *Barrow Linton & Co.* | | | | | | | | |
| | "Egglayer" Laying Mash— | | | | | | | | |
| | Registered Analysis .... | †14·0 | †3·50 | *4·5 | *1·0 | .... | *3·0 | .... | .... |
| 10-3-49 | Sample Analysis .... .... | 18·0 | 3·9 | 4·5 | 1·47 | .... | 2·72 | .... | .... |
| | "Chic Chic" Chickgrain— | | | | | | | | |
| | Registered Analysis .... | †9.0 | †2.7 | *5.0 | .... | .... | .... | .... | .... |
| 15-3-49 | Sample Analysis .... .... | 10.9 | 1.0 | 4.0 | .... | .... | .... | .... | .... |
| | "Eggoleen"— | | | | | | | | |
| | Registered Analysis .... | †37.5 | *12.0 | *1.5 | .... | .... | .... | .... | .... |
| 15-3-49 | Sample Analysis .... .... | 38.7 | 11.4 | 1.8 | .... | .... | .... | .... | .... |
| | "Egglayer" Laying Mash— | | | | | | | | |
| | Reg. Analysis .... .... | †14·0 | †3·5 | *4·5 | *1·0 | .... | *3·0 | .... | .... |
| 23-6-49 | Sample Analysis .... .... | 19·6 | 5·9 | 3·7 | 0·42 | .... | 5·3 | .... | .... |
| | "Growell" Growing Mash— | | | | | | | | |
| | Reg. Analysis .... .... | †14·0 | †4·5 | *4·5 | *1·0 | .... | *3·0 | .... | .... |
| 23-6-49 | Sample Analysis .... .... | 18·0 | 4·8 | 4·8 | 0·35 | .... | 4·3 | .... | .... |
| | Vitalizer Chickstarter— | | | | | | | | |
| | Reg. Analysis .... .... | †15·0 | †4·0 | *4·5 | *1·0 | .... | *3·0 | .... | .... |
| 23-6-49 | Sample Analysis .... .... | 17·1 | 3·4 | 4·4 | 1·15 | .... | 2·7 | .... | .... |
| | "Egglayer" Laying Mash— | | | | | | | | |
| | Registered Analysis .... | †16·0 | †3·5 | *4·5 | *1·0 | .... | *3·0 | .... | .... |
| 22-7-49 | Sample Analysis .... .... | 20·5 | 5·8 | 4·4 | 0·34 | .... | 6·19 | .... | .... |
| | "Dukko" Fattening Mash— | | | | | | | | |
| | Registered Analysis .... | †10·0 | †4·0 | *4·0 | *1·0 | .... | *3·0 | .... | .... |
| 26-7-49 | Sample Analysis .... .... | 15·2 | 3·9 | 4·1 | 0·32 | .... | 2·41 | .... | .... |
| | "Growell" Growing Mash— | | | | | | | | |
| | Registered Analysis .... | †14·0 | †4·5 | *4·5 | *1·0 | .... | *3·0 | .... | .... |
| 22-7-49 | Sample Analysis .... .... | 20·3 | 6·8 | 4·4 | 0·32 | .... | 5·55 | .... | .... |
| | "Vitalizer" Chickstarter— | | | | | | | | |
| | Registered Analysis .... | †15·0 | †4·0 | *4·5 | *1·0 | .... | *3·0 | .... | .... |
| 22-7-49 | Sample Analysis .... .... | 20·4 | 5·5 | 4·2 | 0·32 | .... | 5·74 | .... | .... |
| | "Eggoleen"— | | | | | | | | |
| | Registered Analysis .... | †37.5 | *12.0 | *1.5 | 6.0 | .... | †4.0 | .... | .... |
| 26-7-49 | Sample Analysis .... .... | 38.2 | 9.9 | 4.6 | 6.38 | .... | 9.14 | .... | .... |
| | "Excelsior" Meat and Bone Meal— | | | | | | | | |
| | Registered Analysis .... | †38.0 | *15.0 | *1.5 | .... | .... | .... | .... | .... |
| 26-7-49 | Sample Analysis .... .... | 39.6 | 11.9 | 0.4 | .... | .... | .... | .... | .... |
| | *W. R. and N. N. Clarke.* | | | | | | | | |
| | "Maffco" Dried Buttermilk— | | | | | | | | |
| | Reg. Analysis .... .... | †30·0 | .... | .... | .... | .... | .... | .... | .... |
| 18-8-49 | Sample Analysis .... .... | 32·1 | .... | .... | .... | .... | .... | .... | .... |
| | *Cuming Smith & Mt. Lyell.* | | | | | | | | |
| | "C.S.M.L." Di-Calcic Lick— | | | | | | CaO | | |
| | Registered Analysis .... | .... | .... | .... | *38.0 | †18.0 | †13.0 | .... | .... |
| 4-4-49 | Sample Analysis .... .... | .... | .... | .... | 39.4 | 18.4 | 16.6 | .... | .... |
| | *Davis Gelatine Co.* | | | | | | | | |
| | "Tri Calos" Sterilised Bone Flour— | | | | | | | | |
| | Registered Analysis .... | †5·0 | .... | .... | .... | †30·0 | †40·0 | .... | .... |
| 15-2-49 | Sample Analysis .... .... | 13·7 | .... | .... | .... | 29·4 | 39·4 | .... | .... |
| | "Tri Calos" Sterilised Bone Flour— | | | | | | | | |
| | Registered Analysis .... | †5.0 | .... | .... | .... | †30.0 | †40.0 | .... | .... |
| 21-3-49 | Sample Analysis .... .... | 8.31 | .... | .... | .... | 31.0 | 41.6 | .... | .... |
| | "Tri Calos" Sterilised Bone Flour— | | | | | | | | |
| | Registered Analysis .... | †5.0 | .... | .... | .... | †30.0 | †40.0 | .... | .... |
| 28-7-49 | Sample Analysis .... .... | 7.61 | .... | .... | .... | 31.5 | 42.2 | .... | .... |
| | *Ferguson's Pty., Ltd.* | | | | | | | | |
| | "All-Bone" Bone Meal— | | | | | | | | |
| | Registered Analysis .... | †18·0 | .... | .... | *0·16 | †27·7 | †34·97 | .... | .... |
| 17-2-49 | Sample Analysis .... .... | 21· | .... | .... | 0·19 | 26·6 | 35·4 | .... | .... |
| | "All Bone" Bone Meal— | | | | less than | | | | |
| | Registered Analysis .... | †18.0 | .... | .... | 1% | †27·0 | †34.6 | .... | .... |
| 9-8-49 | Sample Analysis .... .... | 20.3 | .... | .... | 0.83 | 25·4 | 34.7 | .... | .... |

* Maximum. † Minimum.

## ANALYSES OF FEEDING STUFFS.

| Date Sample taken. | Firm and Brand. | Crude Protein. | Crude Fat. | Crude Fibre. | Sodium Chlor. | Phosphoric Acid $P_2O_5$. | Lime. | Other. | |
|---|---|---|---|---|---|---|---|---|---|
| | *David Gray & Co. Pty., Ltd.* | % | % | % | % | % | % Ca | % | |
| | "Western" A1 Laying Mash— | | | | | | | | |
| | Registered Analysis .... | †14·0 | †3·0 | *5·0 | .... | 2·0 | 0·5 | .... | .... |
| 18-2-49 | Sample Analysis .... .... | 12·3 | 3·3 | 3·9 | .... | 1·51 | 0·38 | .... | .... |
| | "Western" Chickbuilder— | | | | | | | | |
| | Registered Analysis .... | †14·0 | †4·0 | *4·5 | 2·0 | .... | 0·5 | .... | .... |
| 22-2-49 | Sample Analysis .... .... | 14·5 | 4·9 | 3·5 | 1·84 | .... | 0·42 | .... | .... |
| | "Western" A1 Laying Mash— | | | | | | | | |
| | Registered Analysis .... | †14·0 | †3·0 | *5·0 | .... | 2·0 | 0·5 | .... | .... |
| 24-3-49 | Sample Analysis .... .... | 12·6 | 2·8 | 4·2 | .... | 1·24 | 0·52 | .... | .... |
| | "Western" Calf Food— | | | | | | | | |
| | Registered Analysis .... | †22·5 | †7·0 | *5·0 | .... | 2·0 | 0·5 | .... | .... |
| 31-3-49 | Sample Analysis .... .... | 18·7 | 4·6 | 4·1 | .... | 0·88 | 0·26 | .... | .... |
| | "Western" Lin Meal— | | | | | | | | |
| | Registered Analysis .... | †22.5 | †7.0 | *5.0 | .... | .... | 0.5 | .... | .... |
| 4-4-49 | Sample Analysis .... .... | 22.4 | 5.8 | 5.3 | .... | .... | 0.2 | .... | .... |
| | "Western" Sweet Dairy Food— | | | | | | | | |
| | Registered Analysis .... | †12.0 | †3.0 | *10.0 | .... | .... | 0.5 | .... | .... |
| 14-6-49 | Sample Analysis .... .... | 10.5 | 2.5 | 4.6 | .... | .... | 0.14 | .... | .... |
| | "Western" Chickstarter— | | | | | | | | |
| | Reg. Analysis .... .... | †14·5 | †4·0 | *4·5 | .... | 2·00 | 0·5 | .... | |
| 14-6-49 | Sample Analysis .... .... | 14·4 | 3·6 | 5·0 | .... | 1·08 | 0·13 | .... | |
| | "Western" Chickstarter— | | | | | | | | |
| | Registered Analysis .... | †14.0 | †4.0 | *5.0 | .... | .... | *0.8 | .... | .... |
| 9-8-49 | Sample Analysis .... .... | 14.8 | 4.4 | 3.4 | .... | .... | 0.71 | .... | .... |
| | "Western" Chickbuilder— | | | | | | | | |
| | Registered Analysis .... | †13.5 | †4.0 | *5.0 | .... | .... | *0.8 | .... | .... |
| 9-8-49 | Sample Analysis .... .... | 14.4 | 4.5 | 4.6 | .... | .... | 0.61 | .... | .... |
| | *J. Kitchen & Sons Pty., Ltd.* | | | | | | | | |
| | "Kitchens" Bone and Meat Meal— | | | | | | | | |
| | Registered Analysis ... | †40·0 | *11·0 | *2·5 | .... | 14·0 | .... | .... | .... |
| 17-2-49 | Sample Analysis .... .... | 47·8 | 8·5 | 0·6 | .... | 14·1 | .... | .... | .... |
| | "Kitchens" Bone and Meat Meal— | | | | | | | | |
| | Registered Analysis .... | †40.0 | *11.0 | *2.5 | .... | 14 0 | .... | .... | |
| 29-7-49 | Sample Analysis .... .... | 45.5 | 9.2 | 0.5 | .... | 14.0 | .... | .... | |
| | *Kraft Walker Cheese Co.* | | | | | | | | |
| | "Krafco" Dried Whey Powder— | | | | | | Lactose | | |
| | Registered Analysis .... | †10.0 | †0.5 | *Nil* | .... | 1.0 | 0.7 | 68.0 | .... |
| 11-8-49 | Sample Analysis .... .... | 13.3 | 0.6 | *Nil* | .... | 1.2 | 1.1 | 68.0 | .... |
| | *W. H. Milne & Co.* | | | | | | | | |
| | "Millers" laying Mash No. 1— | | | | | | Ca | | |
| | Registered Analysis .... | †14·0 | †4·0 | *5·50 | *1·5 | *2·0 | *3·0 | .... | .... |
| 18-2-49 | Sample Analysis .... .... | 16·0 | 3·9 | 4·3 | 1·26 | 1·85 | 2·37 | .... | .... |
| | "Millers" Chickbuilder— | | | | | | Ca | | |
| | Registered Analysis .... | †15.0 | †4.0 | *5.5 | *1.25 | *2.0 | *2.5 | .... | .... |
| 17-3-49 | Sample Analysis .... .... | 16.7 | 3.9 | 5.0 | 0.98 | 1.86 | 1.55 | .... | .... |
| | "Millers" Chickstarter— | | | | | | | | |
| | Registered Analysis .... | †15.0 | †4.0 | *5.5 | *1.0 | *2.0 | *2.5 | .... | .... |
| 14-6-49 | Sample Analysis .... .... | 17.3 | 4.5 | 5.3 | 1.19 | 2.20 | 1.91 | .... | .... |
| | "Millers" Laying Mash— | | | | | | | | |
| | Registered Analysis .... | †14·0 | †4·0 | *5·5 | †1·5 | *2·0 | *3·0 | .... | .... |
| 20-7-49 | Sample Analysis .... .... | 16·5 | 4·3 | 5·5 | 0·76 | 1·37 | 1·94 | .... | .... |
| | "Millers" Chickstarter— | | | | | | | | |
| | Registered Analysis .... | †15·0 | †4·0 | *5·5 | *1·5 | *2·0 | *3·0 | .... | .... |
| 20-7-49 | Sample Analysis .... .... | 17·0 | 4·7 | 6·0 | 0·77 | 2·22 | 1·85 | .... | .... |
| | "Millers" Chickbuilder— | | | | | | | | |
| | Registered Analysis .... | †15.0 | †4.0 | *5.5 | *1.50 | *2.0 | *3.0 | .... | .... |
| 16-8-49 | Sample Analysis .... .... | 16.1 | 4.2 | 6.0 | 1.53 | 2.5 | 3.4 | .... | .... |
| | *W. Thomas & Co. (W.A.), Ltd.* | | | | | | | | |
| | "Thomas" Bone Meal— | | | | | | Cao | | |
| | Registered Analysis .... | †10.0 | .... | .... | .... | †20.0 | †25.0 | .... | .... |
| 24-1-49 | Sample Analysis .... .... | 17.0 | .... | .... | .... | 24.0 | 31.8 | .... | .... |
| | "Thomas" Eggmilk— | | | | | | Ca | | |
| | Registered Analysis .... | †15.0 | †5.0 | *4.0 | *3.0 | .... | *15.0 | .... | .... |
| 24-1-49 | Sample Analysis .... .... | 23.3 | 4.0 | 2.0 | 3.66 | .... | 4.87 | .... | .... |
| | "Thomas" Egg Protein— | | | | | | | | |
| | Registered Analysis .... | †42.0 | *15.0 | *4.5 | *8.5 | .... | *15.0 | .... | .... |
| 24-1-49 | Sample Analysis .... .... | 44.6 | 12.6 | 0.7 | 7.0 | .... | 8.0 | .... | .... |
| | "Thomas" Fattening Mash— | | | | | | | | |
| | Registered Analysis .... | †10.0 | †2.0 | *6.5 | *1.25 | .... | *3.75 | .... | .... |
| 25-1-49 | Sample Analysis .... .... | 12.6 | 2.4 | 5.2 | 1.61 | .... | 1.40 | .... | .... |
| | 'C" Meal Wheaten Meal— | | | | | | | | |
| | Registered Analysis .... | †8.0 | .... | *9.0 | .... | .... | .... | .... | .... |
| 25-1-49 | Sample Analysis .... .... | 10.8 | .... | 2.14 | .... | .... | .... | .... | .... |

* Maximum † Minimum

## ANALYSES OF FEEDING STUFFS.

| Date Sample taken. | Firm and Brand. | Crude Protein. | Crude Fat. | Crude Fibre. | Sodium Chlor. | Phosphoric Acid $P_2O_5$. | Lime. | Others. | |
|---|---|---|---|---|---|---|---|---|---|
| | *W. Thomas & Co. (W.A.), Ltd. —continued.* | % | % | % | % | % | % | % | % |
| | " Thomas " Quickgrow— | | | | | | Ca | | |
| | Registered Analysis .... | †25·0 | *19·0 | *2·60 | *2·75 | .... | *15·0 | .... | .... |
| 18-2-49 | Sample Analysis .... .... | 34·5 | 9·8 | 1·0 | 6·67 | .... | 13·6 | .... | .... |
| | " Thomas " Laying Mash No. 1— | | | | | | | | |
| | Registered Analysis .... | †14.0 | †2.5 | *6.0 | *1.5 | .... | *3.75 | .... | .. |
| 22-2-49 | Sample Analysis .... .... | 14.8 | 3.8 | 6.6 | 1.46 | .... | 2.35 | .... | .... |
| | " Thomas " Quicklay— | | | | | | | | |
| | Registered Analysis .... | †35·0 | *12·5 | *4·0 | *3·0 | .... | *15·0 | .... | .... |
| 10-3-49 | Sample Analysis .... .... | 40·8 | 12·1 | 4·0 | 6·3 | .... | 12·8 | .... | .... |
| | " Thomas " Chickstarter— | | | | | | | | |
| | Registered Analysis .... | †14.5 | †2.5 | *6.0 | *1.25 | .... | *3.75 | .... | .... |
| 16-3-49 | Sample Analysis .... .... | 17.2 | 2.9 | 6.8 | 1.07 | .... | 1.64 | .... | .... |
| | " Thomas " Special Laying Mash— | | | | | | | | |
| | Registered Analysis .... | †13.5 | †3.0 | *7.5 | *1.5 | .... | *3.75 | .... | .... |
| 16-3-49 | Sample Analysis .... .... | 15.3 | 2.2 | 5.3 | 1.52 | .... | 1.86 | .... | .... |
| | " Thomas " Laying Mash No. 1— | | | | | | | | |
| | Registered Analysis .... | *16·0 | *2·5 | †6·0 | †1·5 | .... | †3·75 | .... | .... |
| 24-3-49 | Sample Analysis .... .... | 19·9 | 5·2 | 5·8 | 1·56 | .... | 2·83 | .... | .... |
| | " Thomas " Chickgrower— | | | | | | | | |
| | Registered Analysis .... | †13.5 | †2.5 | *6.0 | *1.25 | .... | *3.75 | .... | .... |
| 2-6-49 | Sample Analysis .... .... | 17.1 | 3.4 | 6.7 | 1.30 | .... | 2.62 | .... | .... |
| | " Thomas " Calf Food— | | | | | | | | |
| | Registered Analysis .... | †15.5 | †2.5 | *6.5 | *3.0 | .... | *15.0 | .... | .... |
| 2-6-49 | Sample Analysis .... .... | 23.1 | 2.2 | 9.9 | 2.0 | .... | 2.44 | .... | .... |
| | " Thomas " Sweet Dairy Food— | | | | | | | | |
| | Registered Analysis .... | †11.5 | †1.5 | *8.5 | *1.75 | .... | *4.0 | .... | .... |
| 14-6-49 | Sample Analysis .... .... | 13.8 | 3.7 | 6.6 | 1.8 | .... | 1.94 | .... | .... |
| | " Thomas " Calf Milk— | | | | | | | | |
| | Reg. Analysis .... .... | †13·5 | †2·5 | *6·0 | *1·25 | .... | *10·0 | .... | .... |
| 22-6-49 | Sample Analysis .... .... | 21·7 | 4·0 | 4·5 | 1·96 | .... | 2·8 | .... | .... |
| | " Thomas " Quickgrow— | | | | | | | | |
| | Reg. Analysis .... .... | †25·0 | *19·0 | *2·0 | *2·75 | .... | *15·0 | .... | .... |
| 22-6-49 | Sample Analysis .... .... | 34·2 | 9·9 | 1·8 | 4·65 | .... | 13·3 | .... | .... |
| | " Thomas " Chickgrower— | | | | | | | | |
| | Registered Analysis .... | †14.5 | †2.5 | *6.0 | *1.25 | .... | *3.75 | .... | .... |
| 27-7-49 | Sample Analysis .... .... | 16.8 | 3.4 | 6.2 | 0.76 | .... | 2.41 | .... | .... |
| | " Thomas " Chickstarter— | | | | | | | | |
| | Registered Analysis .... | †18.0 | †2.5 | *6.0 | *1.0 | .... | *3.75 | .... | .... |
| 27-7-49 | Sample Analysis .... .... | 20.6 | 4.2 | 5.6 | 1.42 | .... | 1.86 | .... | .... |
| | " Thomas " Laying Mash No. 1— | | | | | | | | |
| | Registered Analysis .... | †16.0 | †2.5 | *6.0 | *1.5 | .... | *3.75 | .... | .... |
| 27-7-49 | Sample Analysis .... .... | 17.2 | 3.4 | 4.6 | 1.22 | .... | 3.69 | .... | .... |
| | " Thomas " Quicklay— | | | | | | | | |
| | Registered Analysis .... | †35.0 | *12.5 | *4.0 | *6.0 | .... | *15.0 | .... | .... |
| 28-7-49 | Sample Analysis .... .... | 38.8 | 8.4 | 1.2 | 1.84 | .... | 11.2 | .... | .... |
| | " Thomas " Special Laying Mash— | | | | | | | | |
| | Reg. Analysis .... .... | †14·0 | †2·5 | *7·0 | *1·5 | .... | *3·75 | .... | .... |
| 17-8-49 | Sample Analysis .... .... | 16·6 | 4·2 | 7·0 | 1·4 | .... | 3·44 | .... | .... |
| | " Thomas " Chicken Grain— | | | | | | | | |
| | Reg. Analysis .... .... | †9·0 | †1·5 | *4·5 | .... | .... | .... | .... | .... |
| 17-8-49 | Sample Analysis .... .... | 9·2 | 1·6 | 2·0 | .... | ... | .... | .... | .... |
| | " Thomas " Eggmilk— | | | | | | | | |
| | Reg. Analysis .... .... | †18·0 | †5·0 | *4·0 | *3·5 | .... | *15·0 | .... | .... |
| 18-8-49 | Sample Analysis .... .... | 21·1 | 2·3 | 5·1 | 3·3 | .... | 8·6 | .... | .... |
| | *Tropical Traders, Ltd.* | | | | | | | Sulphur | |
| | " Evelyn " Horse Food— | | | | | | | | |
| | Registered Analysis .... | †12·6 | †5·7 | *7·14 | *6·0 | 0·9 | 1·1 | *1·84 | .... |
| 21-2-49 | Sample Analysis .... .... | 13·0 | 2·3 | 3·7 | 6·54 | 0·60 | 0·86 | 1·44 | .... |
| | Evelyn Calf Food— | | | | | | | | |
| | Reg. Analysis .... .... | †8·5 | †3·0 | *3·86 | *3·5 | .... | .... | *3·5 | .... |
| 18-8-49 | Sample Analysis .... .... | 8·7 | 1·6 | 3·0 | 2·7 | .... | .... | 1·5 | .... |
| | *W.A. Meat Export Works.* | | | | | | | | |
| | " W.A.M.E." Bonemeal— | | | | | | CaO | | |
| | Registered Analysis .... | †18.75 | .... | .... | *0.25 | †26.0 | †27.0 | .... | .... |
| 18-3-49 | Sample Analysis .... .... | 25.6 | .... | .... | 0.15 | 25.5 | 33.5 | .... | .... |
| | " W.A.M.E." Meatmeal— | | | | | | | | |
| | Registered Analysis .... | †45.0 | *13.0 | *2.0 | .... | .... | .... | .... | .... |
| 18-3-49 | Sample Analysis .... .... | 49.9 | 11.5 | 1.5 | .... | .... | .... | .... | .... |
| | W.A.M.E. Bone Meal— | | | | | | CaO | | |
| | Registered Analysis .... | †18.75 | .... | .... | *0.25 | †26.0 | †27.0 | .... | .... |
| 28-7-49 | Sample Analysis .... .... | 23.6 | .... | .... | 0.15 | 24.9 | 32.8 | .... | .... |

* Maximum. † Minimum.

## ANALYSES OF FEEDING STUFFS.

| Date Sample taken. | Firm and Brand. | Crude Protein. | Crude Fat. | Crude Fibre. | Sodium Chlor. | Phosphoric Acid $P_2O_5$. | Lime. | Others. | |
|---|---|---|---|---|---|---|---|---|---|
| | *Westralian Farmers Co-op., Ltd.* | | | | | | | | |
| | Wesfarmers Laying Mash No. 2— | | | | | | Ca | | |
| | Registered Analysis .... | †11.0 | †3.0 | *7.0 | 0.5 | .... | 0.8 | .... | .... |
| 25-1-49 | Sample Analysis .... .... | 12.0 | 2.2 | 4.3 | 0.47 | .... | 0.63 | .... | .... |
| | " Wesfarmers " Chick Mash " A "— | | | | | | | | |
| | Registered Analysis .... | †15.0 | †4.0 | *7.0 | .... | .... | 0.3 | .... | .... |
| 26-1-49 | Sample Analysis .... .... | 18.3 | 5.1 | 5.0 | .... | .... | 1.22 | .... | .... |
| | " Wesfarmers " Laying Mash No. 1— | | | | | | | | |
| | Registered Analysis .... | †14·0 | †4·0 | *7·0 | 0·5 | .... | 1·0 | .... | .... |
| 21-2-49 | Sample Analysis .... .... | 14·0 | 2·6 | 4·0 | 0·85 | .... | 2·16 | .... | .... |
| | " Wesfarmers " Growers Mash— | | | | | | | | |
| | Registered Analysis .... | †13·0 | †4·0 | *7·5 | 0·5 | .... | 0·7 | .... | .... |
| 23-2-49 | Sample Analysis .... .... | 13·0 | 3·0 | 4·4 | 0·62 | .... | 1·37 | .... | .... |
| | " Red Comb " Growers Pellets— | | | | | | | | |
| | Registered Analysis .... | †13.0 | †4.0 | *7.5 | 0.5 | .... | 0.7 | .... | .... |
| 17-3-49 | Sample Analysis .... .... | 13.7 | 3.0 | 4.4 | 0.6 | .... | 1.93 | .... | .... |
| | " Wesfarmers " Laying Mash No. 1— | | | | | | | | |
| | Registered Analysis .... | †14.0 | †4.0 | *7.0 | 0.5 | .... | 1.0 | .... | .... |
| 18-3-49 | Sample Analysis .... .... | 12.3 | 1.8 | 4.0 | 0.6 | .... | 1.39 | .... | .... |
| | Wesfarmers Chick Mash " A "— | | | | | | | | |
| | Reg. Analysis .... .... | †15·0 | †4·0 | *7·0 | .... | .... | 0·3 | .... | .... |
| 15-6-49 | Sample Analysis .... .... | 15·1 | 4·1 | 4·3 | .... | .... | 1·2 | .... | .... |
| | Red Comb Laying Pellets No. 1— | | | | | | | | |
| | Reg. Analysis .... .... | †14·0 | †4·0 | *7·0 | 0·5 | .... | 0·8 | .... | .... |
| 15-6-49 | Sample Analysis .... .... | 12·6 | 3·0 | 4·9 | 0·8 | .... | 1·9 | .... | .... |
| | " Red Comb " Laying Pellets No. 1— | | | | | | | | |
| | Registered Analysis .... | †14·0 | †4·0 | *7·0 | *1·0 | .... | *1·0 | .... | .... |
| 20-7-49 | Sample Analysis .... .... | 12·5 | 3·2 | 4·3 | 0·27 | .... | 1·58 | .... | .... |
| | " Wesfarmers " Laying Mash— No. 1— | | | | | | | | |
| | Registered Analysis .... | †14·0 | †4·0 | *7·0 | *1·0 | .... | *1·0 | .... | .... |
| 20-7-49 | Sample Analysis .... .... | 12·4 | 3·2 | 4·2 | 1·05 | .... | 1·56 | .... | .... |
| | Wesfarmers " Growers Mash— | | | | | | | | |
| | Reg. Analysis .... .... | †13·0 | †4·0 | *7·5 | *1·0 | .... | *1·0 | .... | .... |
| 18-8-49 | Sample Analysis .... .... | 13·9 | 3·4 | 5·1 | 0·95 | .... | 1·1 | .... | .... |
| | " Red Comb " Growers Pellets— | | | | | | | | |
| | Reg. Analysis .... .... | †13·0 | †4·0 | *7·5 | *1·0 | .... | *1·0 | .... | .... |
| 17-8-49 | Sample Analysis .... .... | 13·9 | 3·9 | 4·8 | 0·37 | .... | 1·73 | .... | .... |
| | *Wrights. Ltd.* | | | | | | | | |
| | "Pannifex " Poultry Pusher— | | | | | | | | |
| | Registered Analysis .... | †32·0 | †7·0 | *8·0 | .... | .... | .... | .... | .... |
| 23-2-49 | Sample Analysis .... .... | 36·5 | 10·6 | 7·2 | .... | .... | .... | .... | .... |
| | " Pannifex " Mormilk No. 2— | | | | | | | | |
| | Registered Analysis .... | †20·0 | †4·75 | *14·0 | .... | .... | .... | .... | .... |
| 1-4-49 | Sample Analysis .... .... | 23·2 | 5·5 | 10·6 | .... | .... | .... | .... | .... |
| | *Robert B. Young.* | | | | | | | | |
| | "Morlay" Laying Mash "B"— | | | | | | | | |
| | Registered Analysis .... | †11·5 | †3·0 | *6·0 | *1·5 | *4·0 | †2·0 | .... | .... |
| 17-2-49 | Sample Analysis .... .... | 13·0 | 2·8 | 3·3 | 0·95 | 3·92 | 4·59 | .... | .... |
| | " Morlay " Growing Allmash— | | | | | | | | |
| | Registered Analysis .... | †12.0 | †3.0 | *6.0 | *1.5 | *4.0 | †2.5 | .... | .... |
| 14-3-49 | Sample Analysis .... .... | 14.0 | 3.0 | 3.2 | 1.07 | 3.9 | 4.17 | .... | .... |
| | " Morlay " Laying Mash— | | | | | | | | |
| | Registered Analysis .... | †14.0 | †3.0 | *5.5 | *1.5 | *3.5 | †2.5 | .... | .... |
| 14-3-49 | Sample Analysis .... .... | 13.8 | 2.6 | 3.0 | 0.91 | 3.58 | 3·76 | .... | .... |
| | " Morlay " Laying Allmash— | | | | | | | | |
| | Registered Analysis .... | 13·0 | 3·0 | †6·0 | †1·5 | †4·0 | †2·5 | .... | .... |
| 31-3-49 | Sample Analysis .... .... | 12·8 | 3·3 | 3·6 | 1·47 | 3·83 | 5·02 | .... | .... |
| | " Morlay " Laying Mash— | | | | | | | | |
| | Registered Analysis .... | *14·0 | *3·0 | †5·5 | †2·0 | .... | †4·0 | .... | .... |
| 21-7-49 | Sample Analysis .... .... | 15·3 | 4·4 | 4·2 | 0·40 | .... | 2·90 | .... | .... |
| | " Morlay " Chickstarter— | | | | | | | | |
| | Registered Analysis .... | *15·0 | *3·0 | †5·5 | †1·75 | .... | †4·0 | .... | .... |
| 21-7-49 | Sample Analysis .... .... | 15·7 | 3·5 | 3·4 | 0·78 | .... | 6·36 | .... | .... |
| | " Morlay " Laying Mash— | | | | | | | | |
| | Reg. Analysis .... .... | †14·0 | †3·0 | *5·5 | *2·0 | .... | *4·0 | .... | .... |
| 17-8-49 | Sample Analysis .... .... | 16·0 | 5·1 | 5·3 | 1·90 | .... | 2·81 | .... | .... |
| | Red Comb Chick Pellets A— | | | | | | | | |
| | Registered Analysis .... | †15.0 | †4.0 | *7.0 | .... | .... | .... | .... | .... |
| 16-8-49 | Sample Analysis .... .... | 15.3 | 5.1 | 5.3 | .... | .... | .... | .... | .... |
| | Red Comb Chick Pellets B— | | | | | | | | |
| | Registered Analysis .... | †14.0 | †4.0 | *7.0 | *1.0 | .... | *1.0 | .... | .... |
| 16-8-49 | Sample Analysis .... .... | 14.4 | 4.1 | 4.8 | 0.81 | .... | 1.2 | .... | .... |
| | Red Comb Laying Pellets No. 1— | | | | | | | | |
| | Registered Analysis .... | †14.0 | †4.0 | *7.0 | *1.0 | .... | *1.0 | .... | .... |
| 16-8-49 | Sample Analysis .... .... | 12.6 | 4.0 | 4.9 | 0.74 | .... | 1.7 | .... | .... |

* Maximum. † Minimum.

By Authority: William H. Wyatt, Government Printer, Perth.

A CALENDAR OF FARMING OPERATIONS FOR CEREALS AND SHEEP IN THE WESTERN AUSTRALIAN WHEAT BELT (12 IN.—25 IN. ANNUAL RAINFALL.

| Month. | Cereals. | | Sheep. | | Pastures. | |
|---|---|---|---|---|---|---|
| | Operations. | Recommendations. | Operations. | Recommendations. | Operations. | Recommendations. |
| January .... | Completion of Harvesting | Clean and store machinery, and list parts required. Overhaul tractor and other machinery | Feed and water .... | Sheep to stubbles—best grazing for mated ewes and weaners. Be sure water supplies plentiful and good | .... .... .... | Do not overgraze and so encourage conditions for soil erosion. |
| February .... | Seed grading and pickling | Seed should be well graded. Oats and barley dry-pickled with organic mercury dust. Wheat dry-pickled with copper compounds for control of stinking smut. Renovation of machinery for cultivation and seeding. | As for January .... | Regular inspection—hand feeding may need to start—grain for ewes—hay (cereal or meadow) for dry sheep—remove rams at end of month | Topdressing .... | At least ½ cwt. of superphosphate to old pastures previously topdressed for over 10 years and up to 1½ cwt. for those on relatively new land. |
| March .... .... | Planting early feed crops | Plant catch crops (oats, barley) on stubble or pasture land to provide early grazing | Hand-feeding .... | Probably now required for all sheep. Grain up to ½ lb. per head per day for mated ewes (steaming up), plus some hay as paddock roughage becomes depleted. Grain prevents losses from pregnancy toxaemia of ewes and is also advantageous for weaners. Hay generally sufficient for other sheep. Watch water supplies | Topdressing and renovation | Finish topdressing. Plant catch crops and renovation crops of oats on clover land. |
| April .... .... | Fallow preparation and early cropping | Cultivate fallow after rain has germinated weed seeds. Early green feed crops on fallow may be sown, also midseason and late wheat varieties according to district if conditions suitable | Hand feeding, Crutching. Inoculation. Mules operation | Hand feeding may still be necessary—important for for mated ewes. Crutching minimises fly trouble and reduces amount of daggy wool at shearing. Enterotoxaemia (Braxylike disease) can be prevented by inoculation (April, May, June). This can be conveniently done during crutching operations. Also suitable time for "mules" operation for prevention of fly strike. | Pasture establishment and management of old pastures | New clover pastures generally do best when sown early. Use good seed and liberal superphosphate. Inoculate seed particularly on new or relatively new land. Old pastures should not be grazed during first few weeks till well rooted. Hand feeding will avoid this. |
| May .... .... | The main seeding month | Sow varieties according to maturity and suitability to the particular district. Too early sowing of early varieties may result in septeria or frost injury in spring. Best results obtained when seeding takes place in moist well consolidated seed bed following destruction of early germinated weeds. Use early and very early varieties according to district when conditions cause seeding to be extended later than normal. Apply superphosphate at rates recommended for local conditions. | Lambing. Tailing and marking | Provide good nutritive conditions for lambing ewes—grain essential if green pastures or early crops not available. Lambing paddocks should contain shelter belts. Inspect ewes frequently. Lamb marking should be carried out on a warm dry day—avoid placing lambs after operation on rank, wet grazing. Use sharp instruments, antiseptics and for preference temporary yards. The long tail (3 in.) reduces fly strike. Lay poison baits for foxes and dogs prior to and during lambing period | General management and grazing | Avoid overgrazing just after germination, except paddocks intended for ploughing up and cropping. |
| June .... .... | Cropping completed | Seeding of wheat crops on pasture land should be delayed at least two weeks after ploughing to avoid web worm damage. Clean and store seeding machinery—list new parts required | Lambing, tailing and marking generally completed | Similar to May and according to season. Watch for fly strike—early flush seasons may produce an early winter fly wave | General grazing management | Rotate grazing—pastures can become "fouled" and stale—stock do better on fresh grazing and frequent changes. Fumigate and destroy rabbit warrens during winter months |
| | Fallowing .... .... | Early fallow is better than late fallow in drier areas. Thoroughness of the job more important than the type of machine. Wash superhpos- | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | renovation | quently be kept free of noxious weeds or objectionable weeds by hand pulling. hoeing, etc., before they reach serious proportions. On wet days renovate machinery, buildings, equipment. Classify bag supply—make bundles each 2 dozen of super. bags for refilling | shearing<br>Culling .... .... | for shearing—order wool packs, branding fluid, raddle, etc.<br>Class and cull your sheep before shearing. This can make drafting and wool classing easier at shearing time. Book ram requirements | management | for meadow hay. |
| August .... .... | Various .... .... | Early fallow may require cultivation or ploughing back to destroy weeds or restore tilth if set hard. Prepare hay cutting machinery. Decide grain and fodder requirements for fodder conservation | As for July .... | Shearing commences in early districts, brand all sheep with registered wool brand and recommended fluid—clean up shed, store machinery and list new parts required. Market early fat lambs | As for July .... | Most pastures can be grazed heavily at this time of the year but frequent changes are desirable. Give the best grazing to ewes and lambs. |
| September .... | Attention to fallow and haycutting | Fallow should only be worked if required—over cultivation encourages erosion, particularly on lighter soils. Cereal hay cutting should be completed not later than two weeks after full flowering. Plough fire breaks | Main shearing. Marketing fat lambs. Weaning | Skirt, roll and class the wool to make even lines—use recommended abbreviated terms to describe wool—bale and press wool stencil on bale (3 in. lettering) "Property," abbreviated description of contents and number of bale (see Department leaflets). Book killing space at export works for fat lambs—handle carefully to avoid bruising. Well grown lambs (except those intended for export) can be weaned at shearing time | Hay making in early districts | Meadow hay should be cut when the bulk of the pasture is in full flower, subterranean clover when just beginning to wilt.<br>Plough fire breaks. |
| October .... | Hay making and stacking | Hay deteriorates when exposed to sun and rain. Cart as soon as sufficiently dry to stack. Make large stooks if hay carting and stacking is likely to be delayed. Arrange for wheat carting | Shearing completed (late districts) Preparations for mating. Dipping | Weaners should be placed on good grazing. Class the ewe flock—culls to market or suitable feed for fattening. Ewes intended for mating to relatively poor grazing so that they do not become overfat. Very fat ewes are difficult to "flush" and may not conceive. Dipping to control lice and tick is compulsory and should be carried out 3 to 6 weeks after shearing with an approved dipping preparation and according to directions. Drench for the control of worms | Hay making (early districts) | These operations should be completed as quickly as possible—undue exposure to weather causes unnecessary mechanical loss of valuable leafy parts and also food nutrients, including green colouring matter (source of Vitamin A). Less total loss with baled hay than stacked. Power mowers, side delivery rakes and pick-up baler enables this work to be done expeditiously with a minimum loss and the material baled direct from the windrows. |
| November .... | Hay carting completed. Grain harvesting in early districts | Stud seed plots or areas selected for next season's seed should be carefully harvested to avoid admixture. Order superphosphate requirements for cropping and pastures for following years | Early mating .... | Ewes should be "flushed" on good feed for three weeks prior to and during mating. A "scratched-in" crop of oats which has been used for winter grazing and allowed to recover is very suitable for "flushing." Balidu and Fulghum are good recovery varieties. At least 2 per cent. of rams should be used with pure Merinos and 3 per cent. for fat lamb production where a concentrated lambing is desired. Preventive inoculation for toxic paralysis should be done about this period if the disease is feared | .... .... .... | Wimmera rye grass remains greener longer than most annual species. Avoid over grazing so that this plant has an opportunity to set seed. |
| December .... | Harvesting completed in most districts | Cut straw and thatch hay stacks. Reserve additional supplies of seed of early wheat varieties in case the the following season opens late | Main mating .... | Merino and Dorset Horn ewes will mate in November but most crossbreds not till December. Other British pure breeds do not come in season till January-February | .... .... .... | Stubbles also become grazing paddocks after harvesting completed. Check fire fighting equipment. Rabbit poisoning with phosphorus baits during summer months. |

Western Australia.

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